KE-42MR1/42MR1E/MR42M1

PANEL MODULE SERVICE MANUAL

PDP Module Name

NP42D2MF01
NP42D3MF01

KE-42MR1 AEP Model
KE-42MR1 K Model
KE-42MR1E HK Model
KE-42MR1E ME Model
KE-MR42M1 CH Model

FLAT PANEL COLOR TV

SONY®

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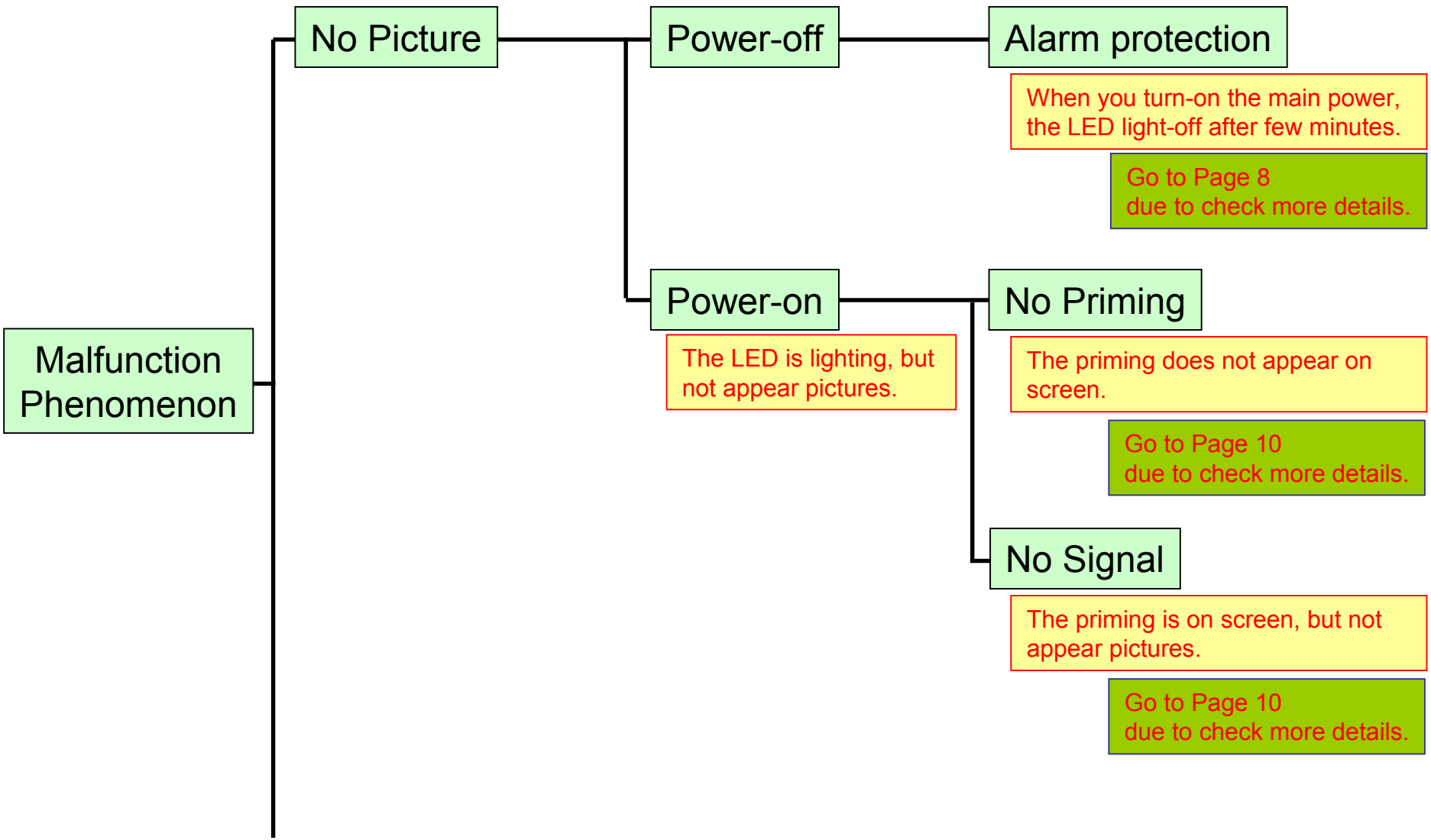
PDP (NP series) Confirmation Common Manual

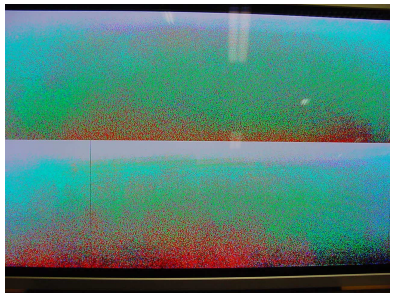
Ver.1

PDP Malfunction Phenomenon


Malfunction Phenomenon
No Picture
Power-off
Alarm protection
When you turn-on the main power, the LED light-off after few minutes.
Go to Page 8 due to check more details.
Power-on
No Priming
The LED is lighting, but not appear pictures.
The priming does not appear on screen.
Go to Page 10 due to check more details.
No Signal
The priming is on screen, but not appear pictures.
Go to Page 10 due to check more details.

PDP Malfunction Phenomenon

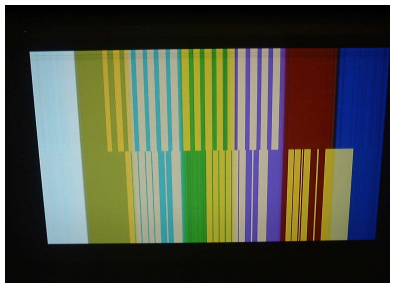
- Abnormal Screen
  - Abnormal Color



No lighting sell are on screen at white pattern.

Go to Page 11
due to check more details.

  - Abnormal Block

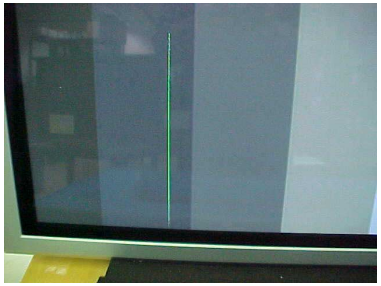


Colorful blocks appear on screen at color bar pattern.

Go to Page 11
due to check more details.

PDP Malfunction Phenomenon

- Vertical
  - Vertical Line
    - Single Line



Only one line is always lighting.

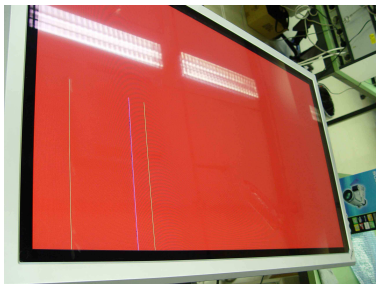
Go to Page 12
due to check more details.

    - Two Lines

two lines are lighting.

Go to Page 13
due to check more details.

    - Many Lines



Many lines are lighting.

Go to Page 14
due to check more details.

PDP Malfunction Phenomenon

- Vertical
  - Vertical Block
    - One Black Block

One block is always no-lighting by one IC.

Go to Page 15
due to check more details.

    - One Zebra Block

Zebra block appears by one IC.

Go to Page 16
due to check more details.

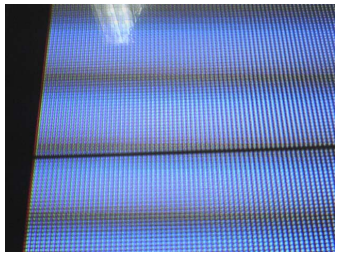
    - Many Black Blocks

Many block appear by one data relay board.

Go to Page 16
due to check more details.

PDP Malfunction Phenomenon

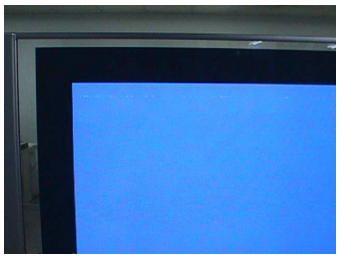
- Horizontal
  - Horizontal Line
    - One Black Block



One black line appears on screen.

Go to Page 17
due to check more details.

    - Two Lines



Two lines appear on screen.

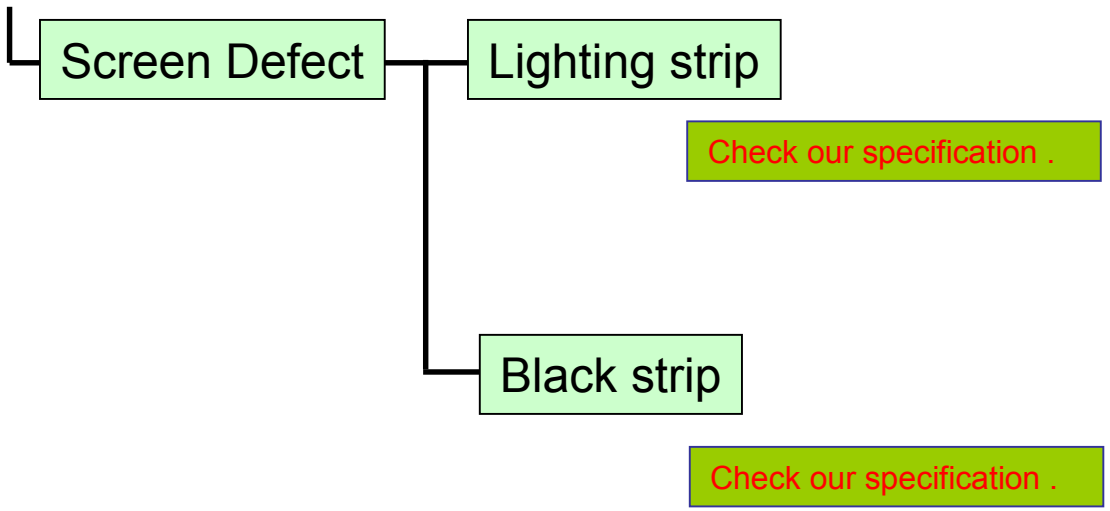
Go to Page 18
due to check more details.

  - Horizontal Block

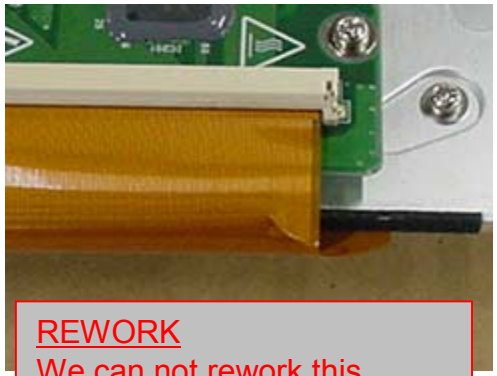
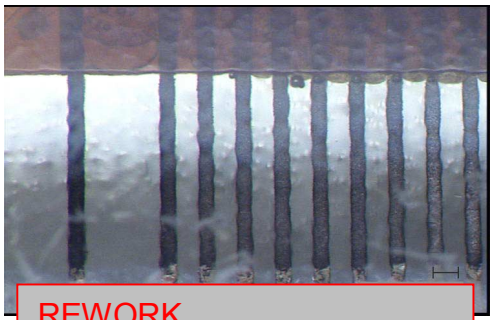
Half block does not go out.

Go to Page 19
due to check more details.

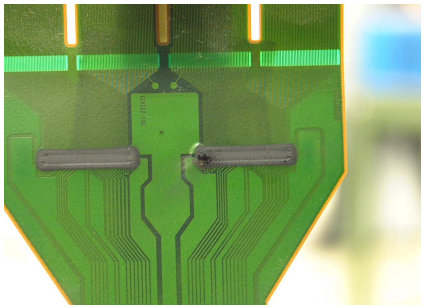
PDP Malfunction Phenomenon



No Picture

- Alarm Protection
  - Panel Alarm
    - FPC Opened
      - Panel alarm line go through the edge of the FPC.
      - CHECK POINT
        FPC cutting at scan side and TCP side.
      - 
        REWORK
        We can not rework this.
    - Panel Grid Opened
      - Panel alarm line go through the edge of panel.
        This case is caused by sulfur issue.
      - CHECK POINT
        Panel Grid condition.
      - 
        REWORK
        We can not rework this.
  - Vs Protection
    - High Voltage Circuit Broken
      - Next parts will be broken, Scan Board, Common Board, High Voltage Board, Scan Relay Board.
      - CHECK POINT
        Fuse on boards, Power HIC, Between NEGA and POSI on scan relay board
      - REWORK
        Change the Scan, Common board and Scan relay board.

No Picture

- Alarm Protection
  - Vd Protection
    - TCP Broken
      - In case of shortage between Vd line and GND in TCP, Vd protection will be worked.
      - CHECK POINT
        Shortage between Vd line and GND, TCP surface
      - 
      - REWORK
        We can not rework this.
    - Data Relay Board Broken
      - In case of shortage between Vd line and GND in data relay board, Vd protection will be worked.
      - CHECK POINT
        Shortage between Vd line and GND on data relay board.
      - REWORK
        Change the data relay board.
  - 5V Protection
    - Digital Board Broken
      - In case of no supply from supply board, 5V protection will be worked.
      - CHECK POINT
        Fuse on digital board
      - REWORK
        Change the digital board.

No Picture

No Priming
No Signal

High Voltage Circuit Broken

Next parts will be broken, Vp or Vbw line on Scan Board, Vsw line on Common Board, (High Voltage Board).

CHECK POINT
Fuse on board, Vp, Vbw and Vsw line of Power HIC.

REWORK
Change the scan or common board (High voltage board).

Digital Board Broken

Digital is not working.

CHECK POINT
fuse on digital board, LVDS cable

REWORK
Change the digital board.

Vacuum Tube Cracking

With big noise.

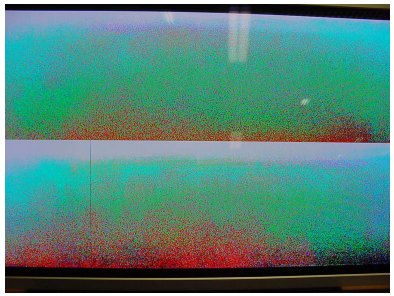
CHECK POINT
Vacuum tube

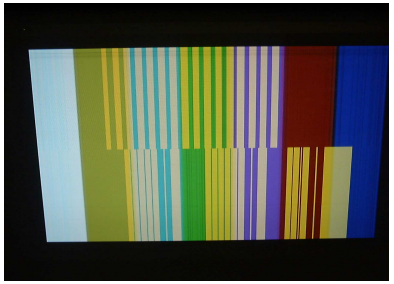
REWORK
We can not rework this.

No Picture

Abnormal screen

High Voltage Circuit Broken





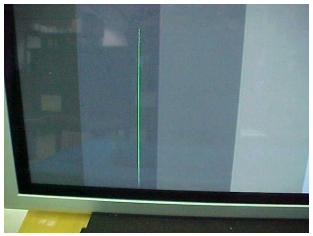
Next parts will be broken, Vbw line on Scan Board, Vsw line on Common Board, (High Voltage Board).

CHECK POINT
fuse on board, Vbw or Vsw line on board.

REWORK
Change the scan or common board (High voltage board).

Vertical

Single Line



The output of TCP

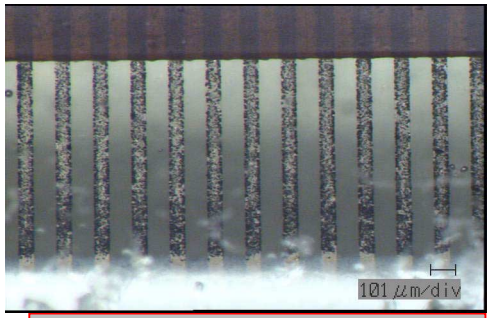
The output of TCP is fixed at low level or high level.
This line is very clear and constant.

CHECK POINT
One line is no-lighting or lighting at any pure color signal (red, green blue and black)

REWORK
We can not rework this.

Data Grid Open

Damaged data grid in panel
EX) Sulfur, scratch



CHECK POINT
The surface condition of panel grid.

REWORK
We can not rework this.

Vertical

Two Lines

The output of TCP

The closed outputs of TCP are Shortage.

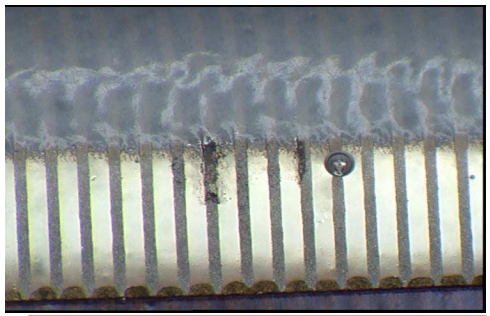
CHECK POINT
Two lines are lighting at two colors.

REWORK
We can not rework this.

Data Grid Shortage

The grids of panel are shortage due to foreign material.

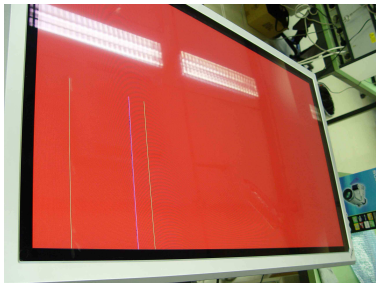
CHECK POINT
The surface condition of panel grid.



REWORK
We can not rework this.

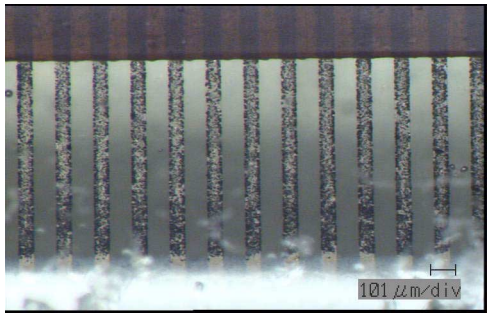
Vertical

Many Lines — Data Grid Open



Damaged data grid in panel
EX) Sulfur, scratch

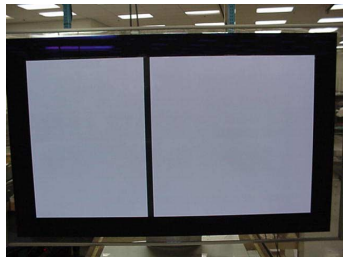
CHECK POINT
The surface condition of panel grid.



REWORK
We can not rework this.

Vertical

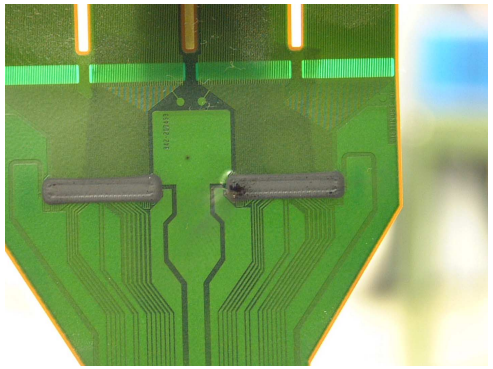
Black Block



TCP Broken

TCP is not working.

CHECK POINT
The surface of TCP is damaged.

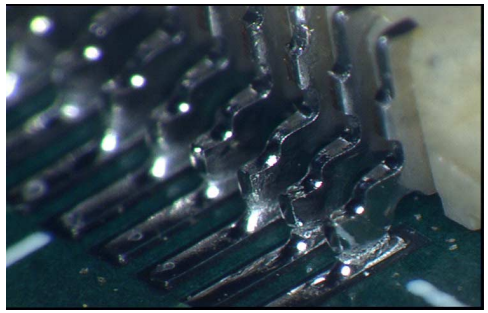


REWORK
We can not rework this.

Data Relay Board

The buffer IC is not working on signal lines.
The connector on data relay board is opened by the cracking of solder.

CHECK POINT
Input signal condition.



REWORK
Change the data relay board.

Vertical

Zebra Block — Data Relay Board

The lead of the buffer IC or the connector on data relay board are shortage by foreign material.

CHECK POINT
Input signal condition.

REWORK
Change the data relay board.

Many Blocks — Data Relay Board

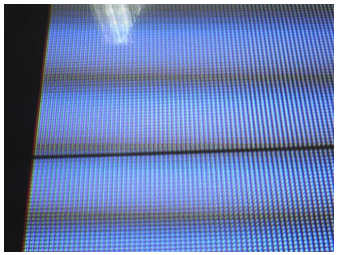
The lead of the buffer IC or the connector on data relay board are shortage by foreign material.

CHECK POINT
Input signal condition.

REWORK
Change the data relay board.

Horizontal

Single Line



The output of Scan IC

The output of scan IC is fixed at low level or high level.
This line is very clear and constant.

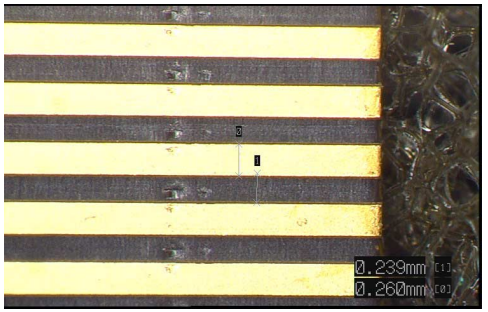
CHECK POINT
One line is no-lighting or lighting at white signal.

REWORK
Change the scan relay board.

Scan Relay Board

Mis-contact between FPC and the connector of scan relay board.

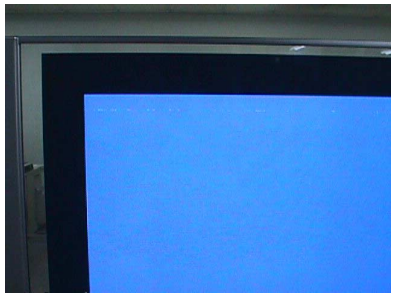
CHECK POINT
The output of scan IC.
Reconnection.



REWORK
Reconnect the FPC.

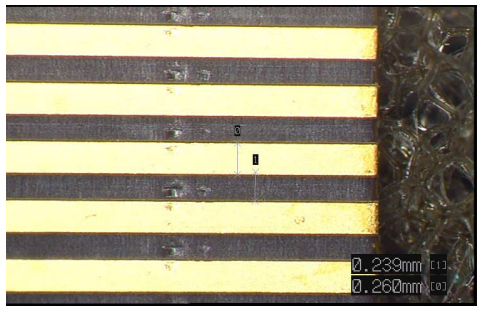
Horizontal

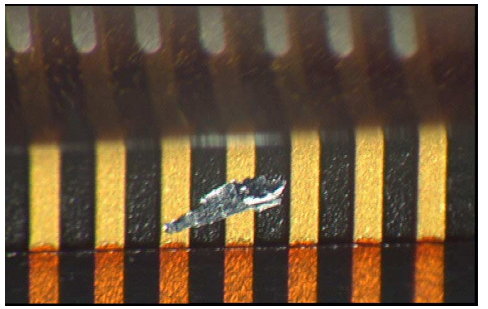
Two Lines — Scan Relay Board



The output of scan IC are shortage.
This line is not clear and not constant.

CHECK POINT
FPC insert shifting.
Foreign material in connector.
The lead of scan IC.





REWORK
Clean in the connector.
Reconnect the FPC.
Change the scan relay board.

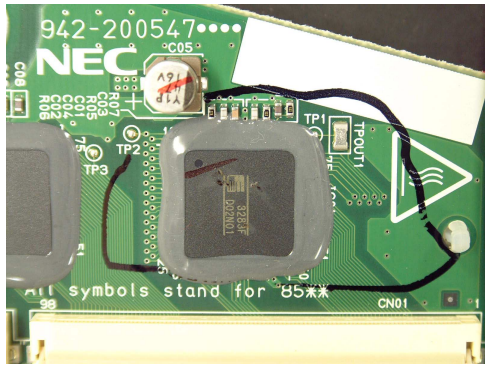
Horizontal

Block

Scan IC broken

Scan IC is not working.

CHECK POINT
The surface of scan IC.



REWORK
Change the scan relay board.

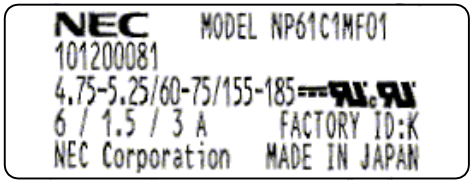
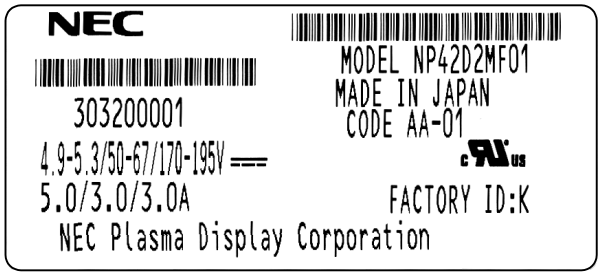
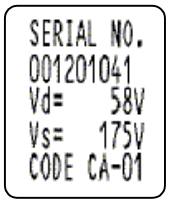
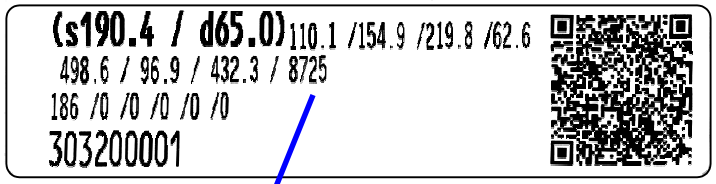
Scan Board

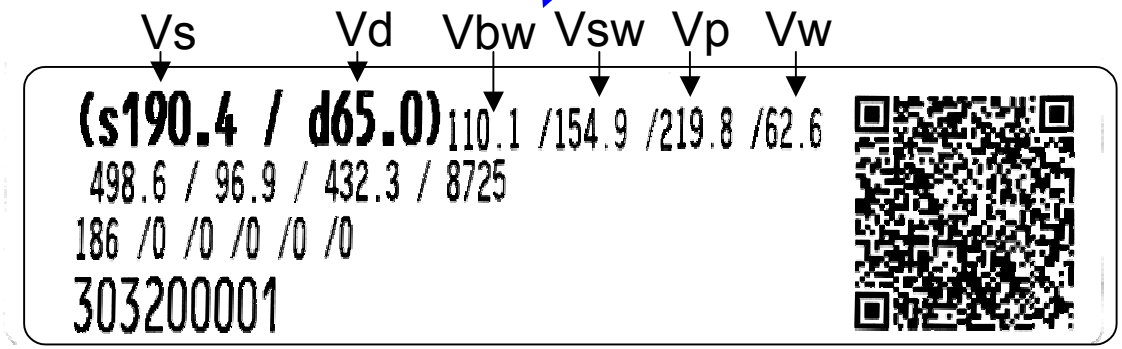
The output of scan board is not working.

CHECK POINT
The output of Scan Board.

REWORK
Change the scan board.

Voltage Information

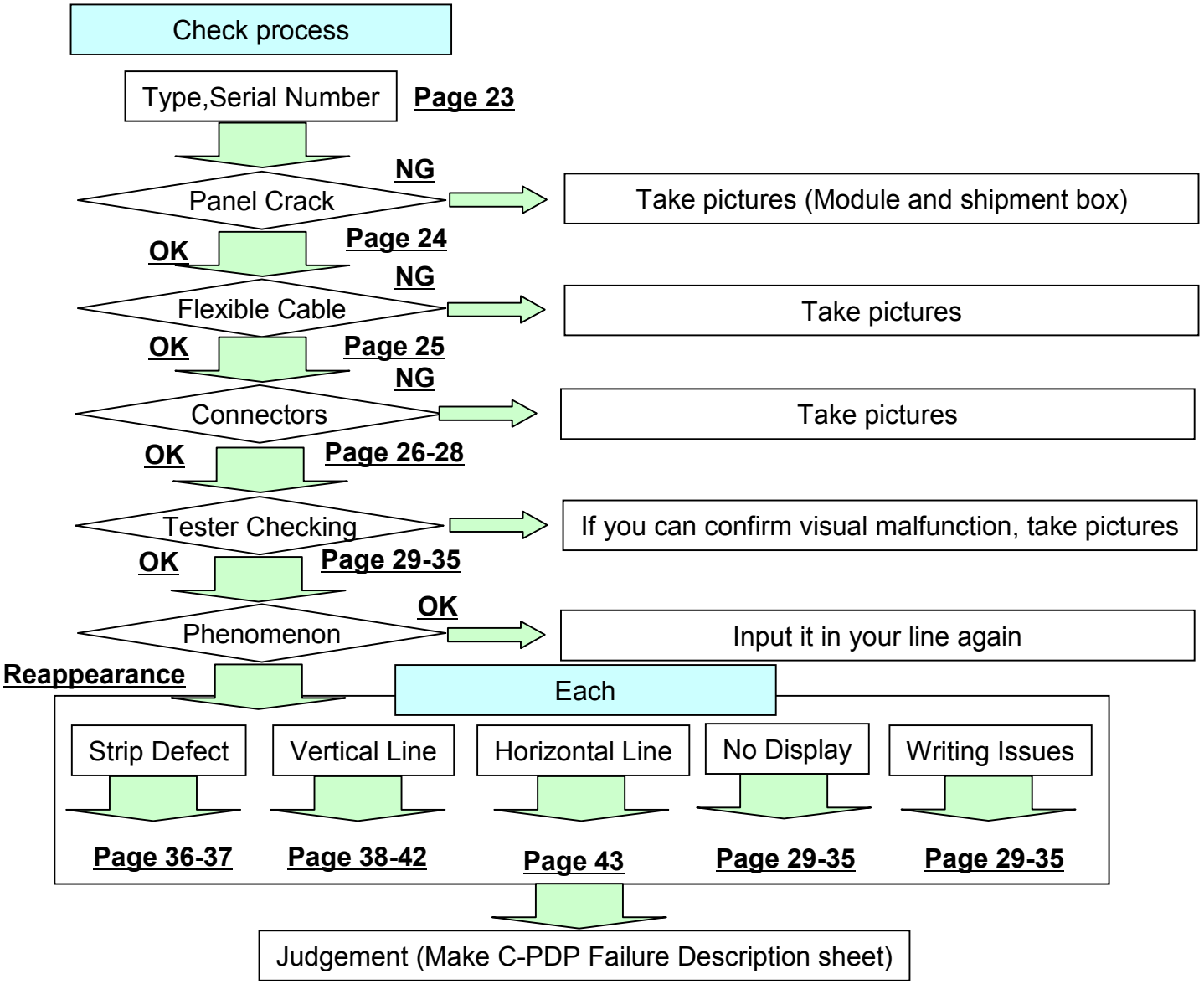
		By June 2003	Since July 2003
Label A	Sample		
	Dimension	40 x 17mm	55 x 25mm
Label B	Sample		
	Dimension	20 x 17mm	55 x 15mm



PDP (NP42D2MF01) Confirmation Manual

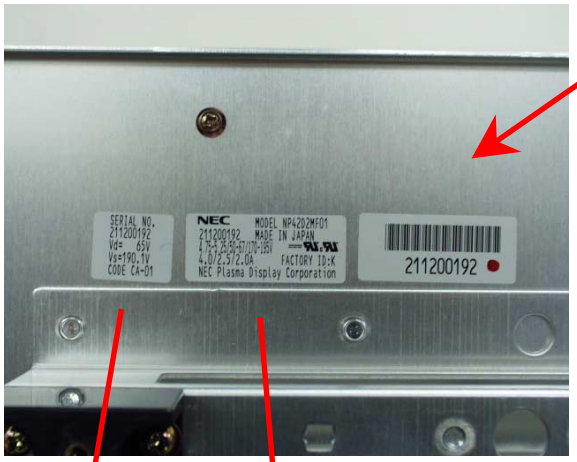
Ver.2

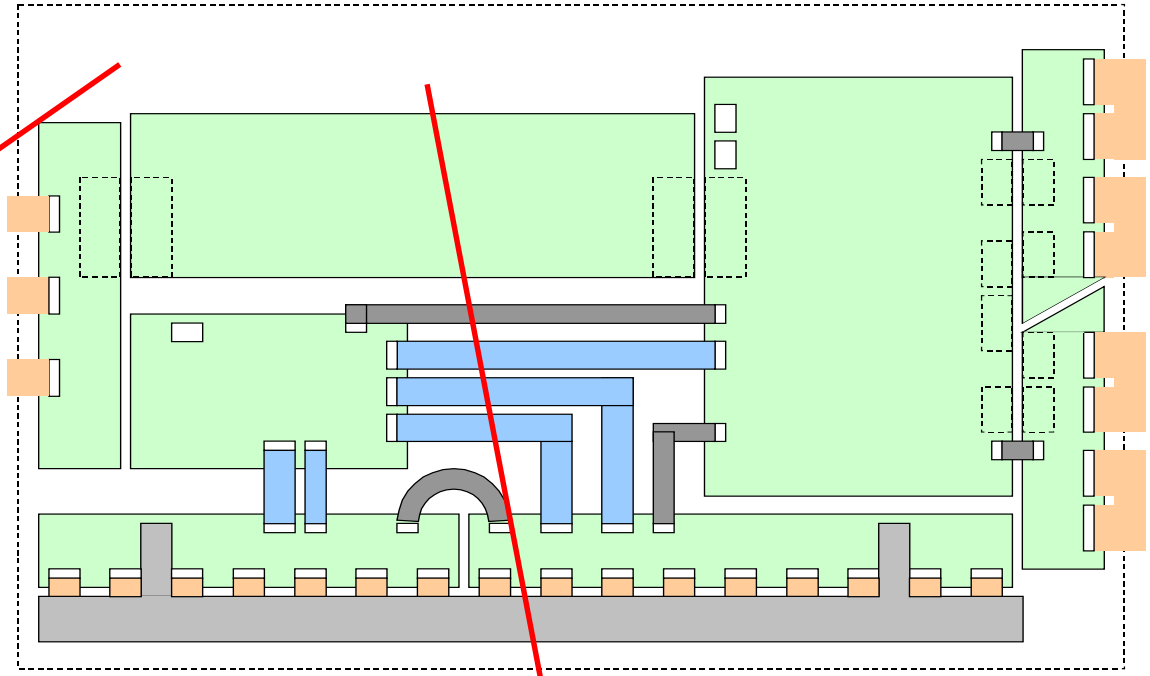
Flow Chart


Check process
Type,Serial Number
Page 23
NG
Panel Crack
Take pictures (Module and shipment box)
OK
Page 24
NG
Flexible Cable
Take pictures
OK
Page 25
NG
Connectors
Take pictures
OK
Page 26-28
Tester Checking
If you can confirm visual malfunction, take pictures
OK
Page 29-35
OK
Phenomenon
Input it in your line again
Reappearance
Each
Strip Defect
Vertical Line
Horizontal Line
No Display
Writing Issues
Page 36-37
Page 38-42
Page 43
Page 29-35
Page 29-35
Judgement (Make C-PDP Failure Description sheet)

Serial Number

Module Number and Panel ID





Type Name

Serial Number

SERIAL NO.
211200192
Vd=65V
Vs=190.1V
CODE AA-01

NEC NP42D2MF01
211200192
****
****
****

Panel ID

212211041621

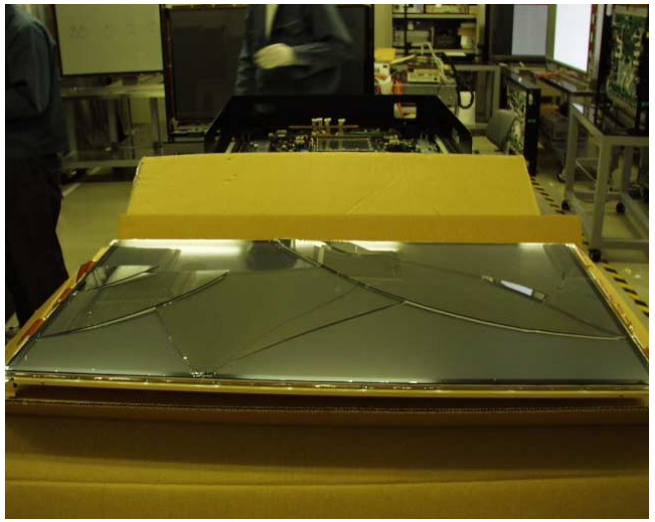
Example : Type Name NP42D2MF01AA

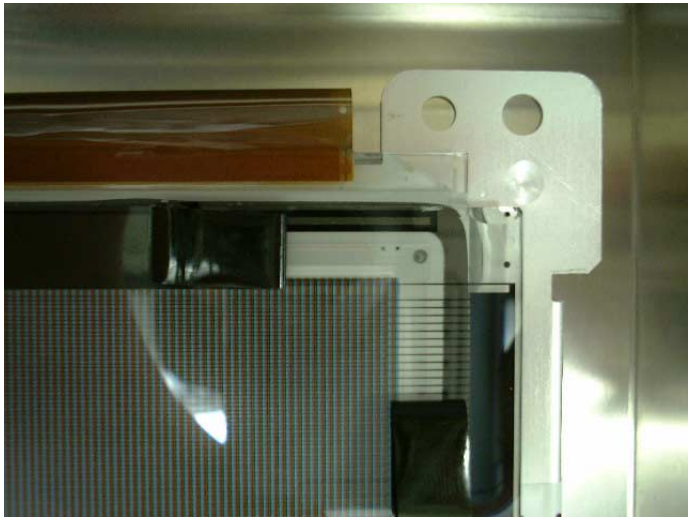
Serial Number 211200192

Panel Crack

Panel Crack

Check the surface of glass whether crack or not.





This issue may be caused by transportation or treatment after shipment.

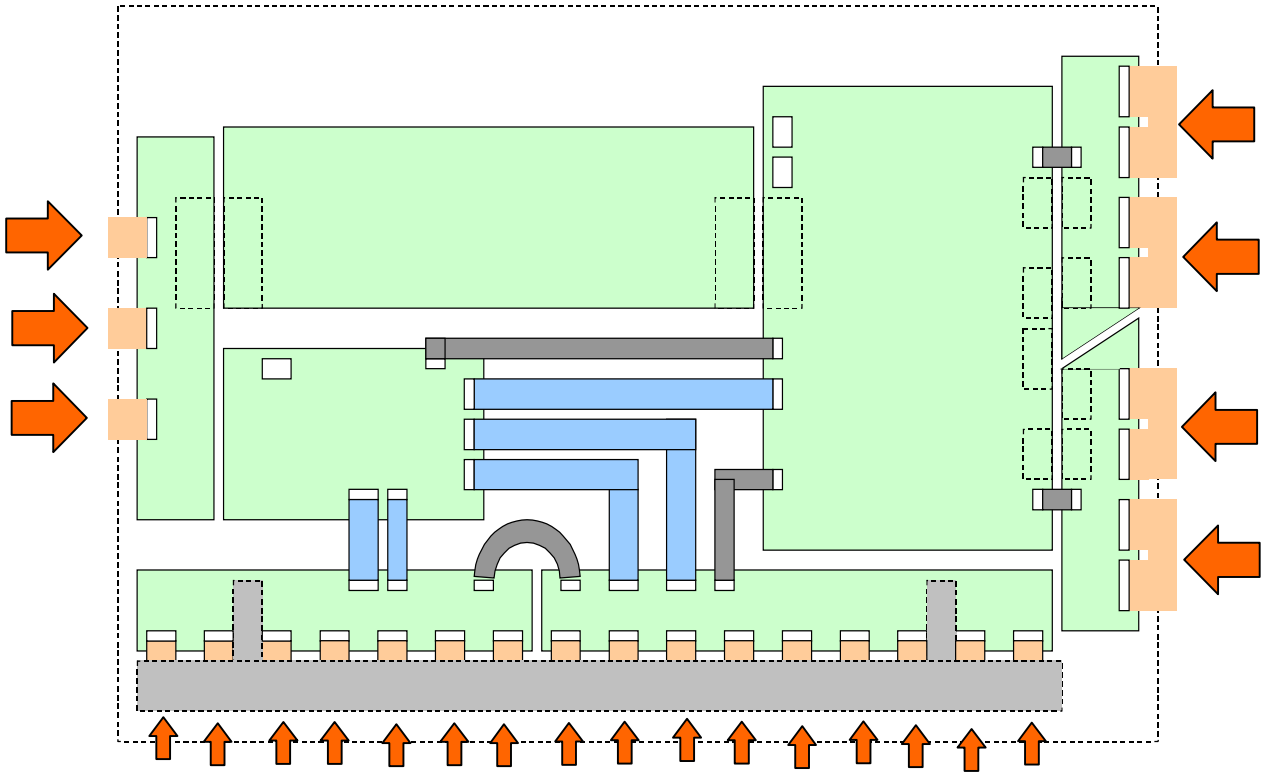
We would like you to take some pictures, the broken module, the outside box, and inform the shipment date.

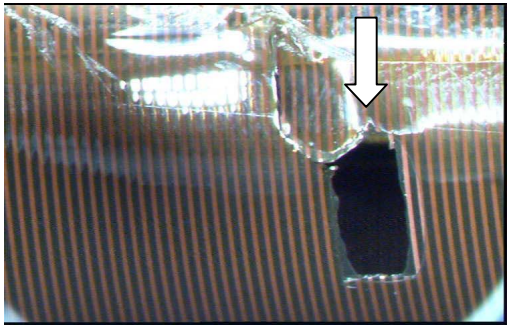
If you do not the pictures, we can dispose the broken modules on our responsibility.

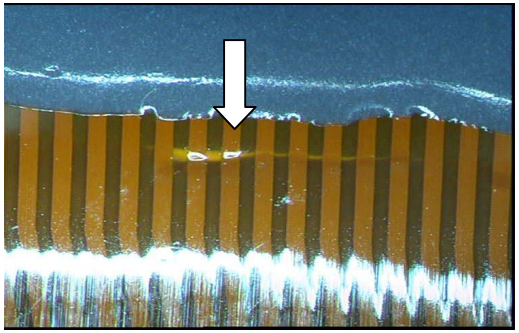
Flexible Cable

Flexible Cable

Check the Flexible Cables whether scratched, broken, or not.







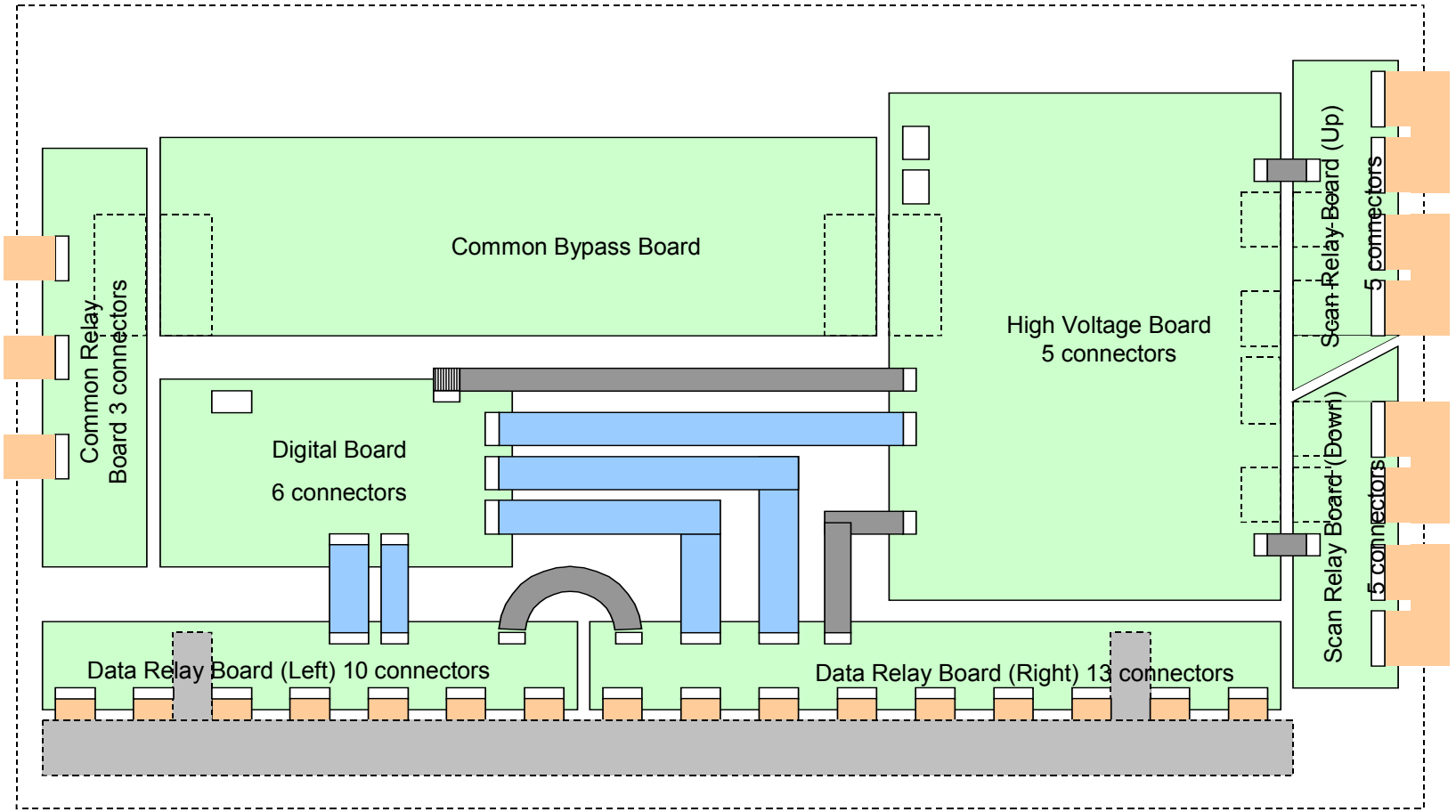
In this case, it caused by handling them at customers line.

We would like you to be careful to handle the modules.

Connectors

Connectors Condition

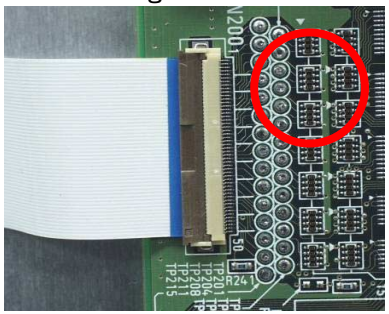
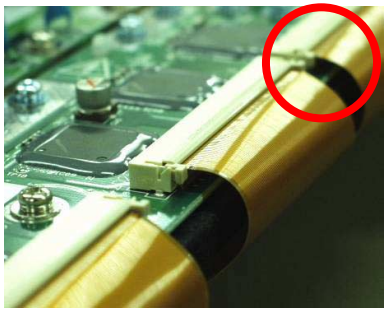
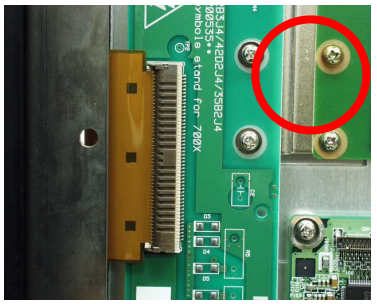
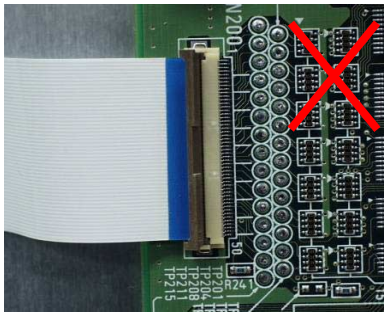
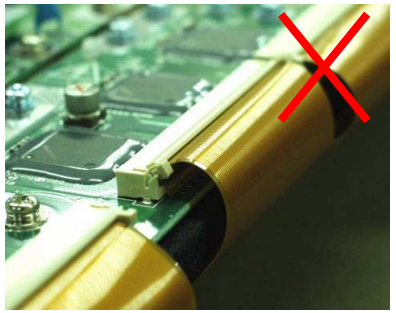
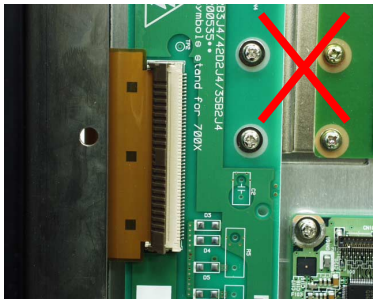
Check the Cables or Connectors whether connected and locked, or not.



We would like you to be careful to handle the modules at assembling.

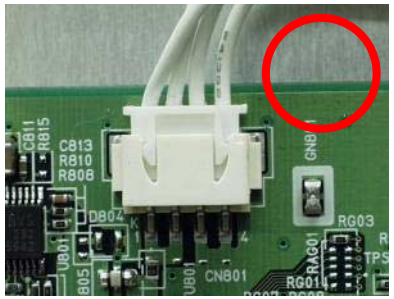
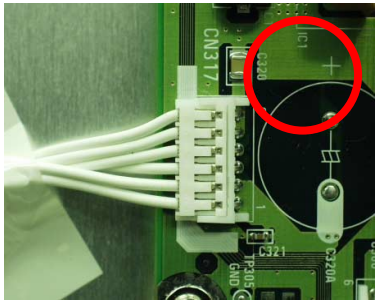
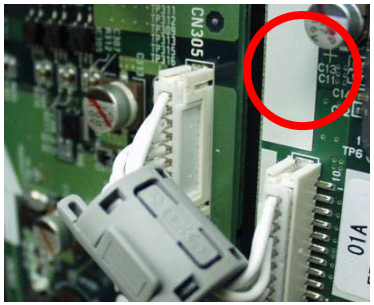
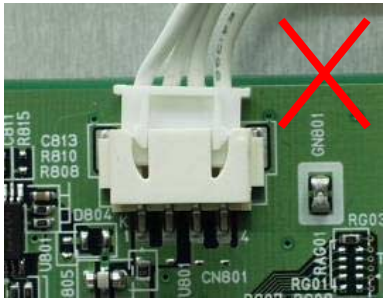
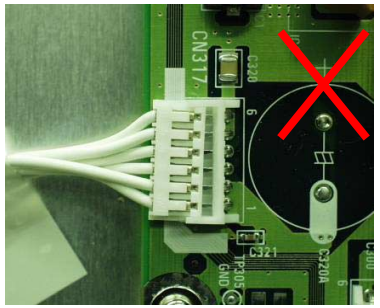
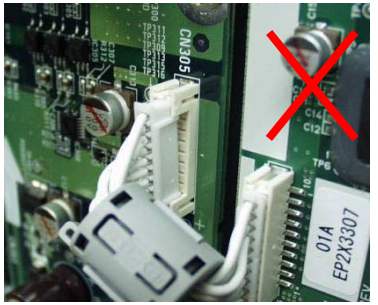
Connector Checking 2

Each Connector

	High Voltage Board – Digital Board	Scan Relay Board – Flexible Cable	Common Relay Board – Flexible Cable
Locked			
Unlocked			

Connector Checking 3

Each Connector

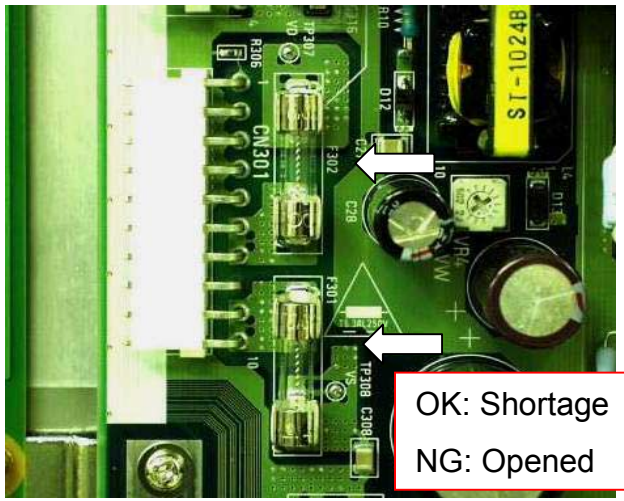
	Digital Board – High Voltage Board	High Voltage Board – Data Relay Board	High Voltage Board – Scan Relay Board
Locked			
Unlocked			

Tester Checking 1

Fuse

Glass Fuse on High Voltage Board

(F301 、F302)

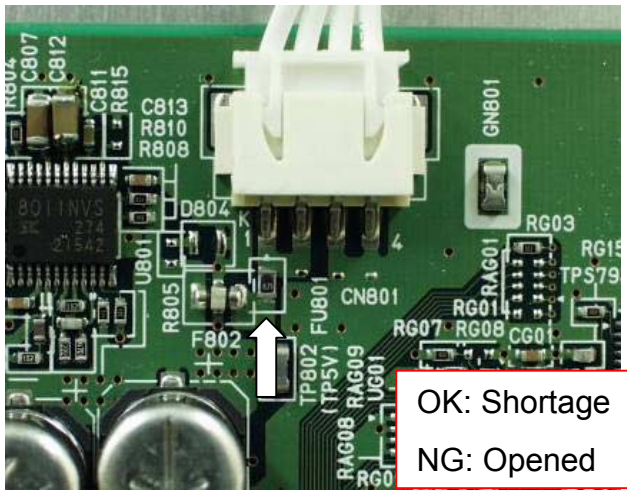


OK: Shortage

NG: Opened

Chip Fuse on Digital Board

(FU801)



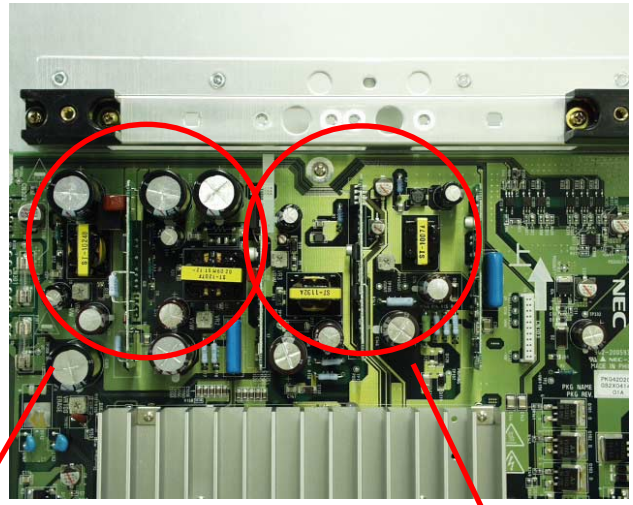
OK: Shortage

NG: Opened

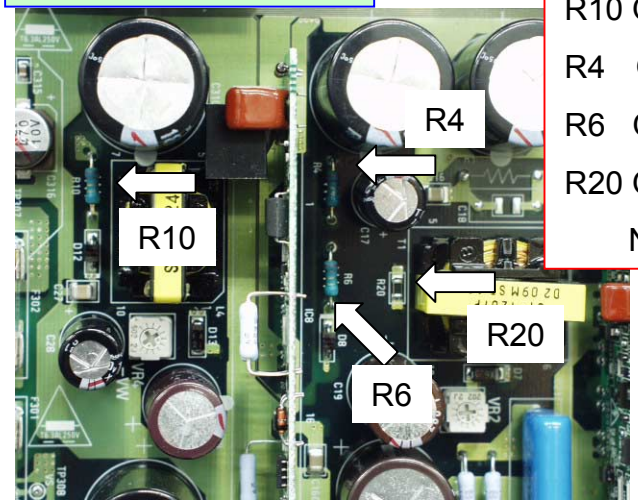
Tester Checking 2

Fuse

Resistance and Chip Fuse
on High Voltage Board

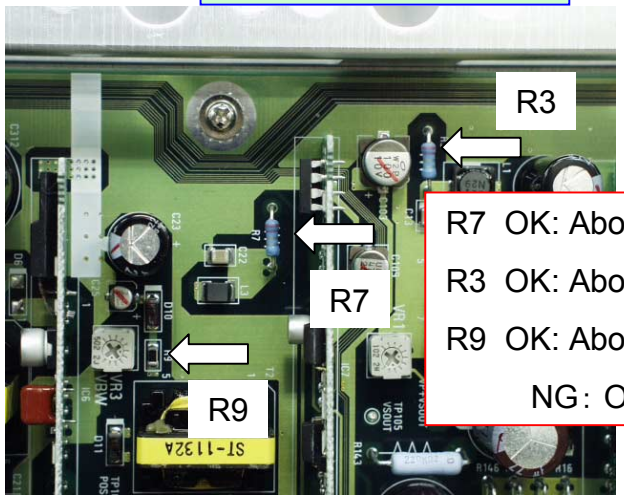


Fuse Resistance
(R10), (R4), (R6)
Chip Fuse Resistance
(R20)
On High Voltage Board



R10 OK: About 2.2 Ω
R4 OK: About2.2 Ω
R6 OK: About2.2 Ω
R20 OK: About 10 Ω
NG: Opened

Fuse Resistance
(R7), (R3)
Chip Resistance
(R9)
On High Voltage Board

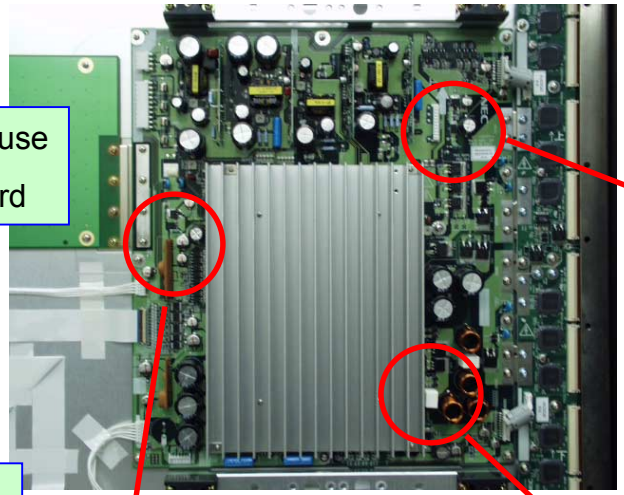


R7 OK: About2.2 Ω
R3 OK: About2.2 Ω
R9 OK: About 10 Ω
NG: Opened

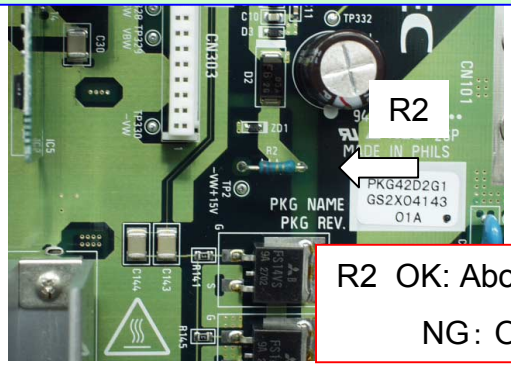
Tester Checking 3

Fuse

Resistance and Chip Fuse on High Voltage Board

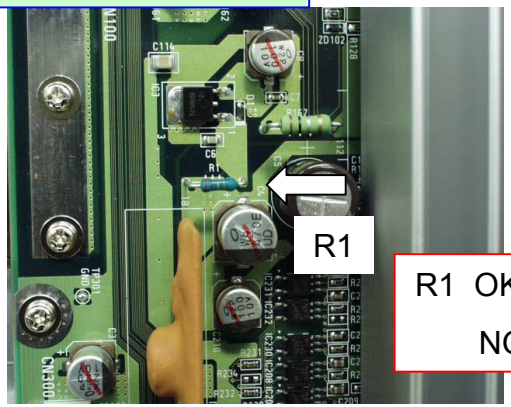


Fuse Resistance on High Voltage Board (R2)



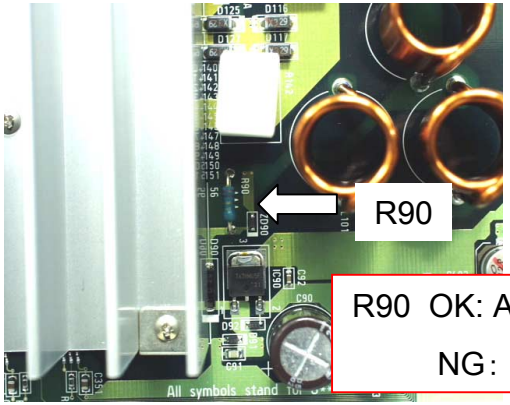
R2 OK: About2.2 Ω
NG: Opened

Fuse Resistance on High Voltage Board (R1)



R1 OK: About2.2 Ω
NG: Opened

Fuse Resistance on High Voltage Board (R90)



R90 OK: About2.2 Ω
NG: Opened

Tester Checking 4

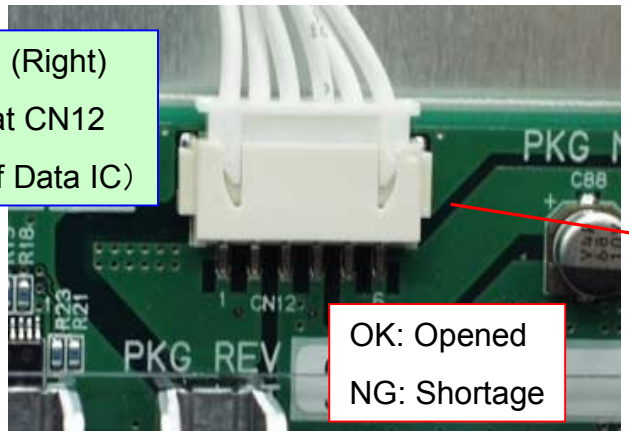
Data IC

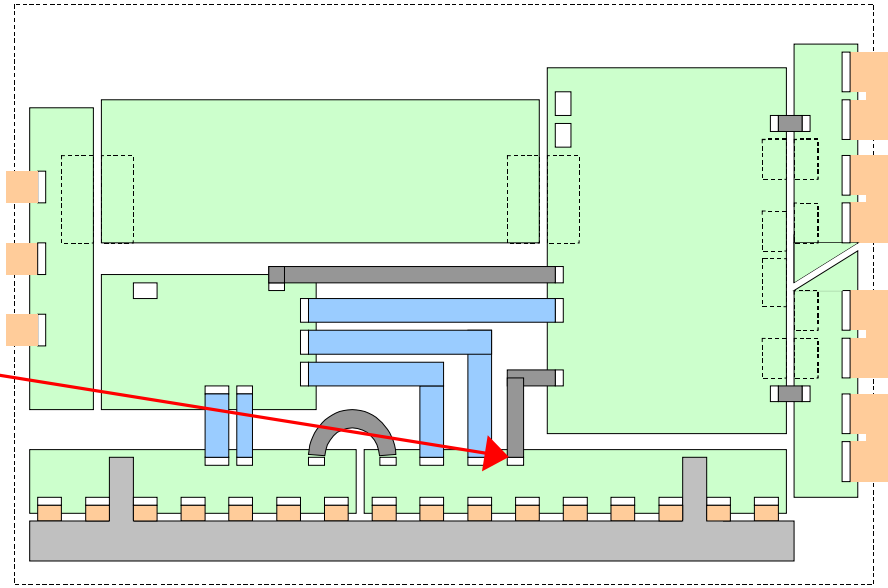
Check between (#1 pin or #2 pin) and GND

Data Relay Board (Right)

#1 pin or #2 pin at CN12

（Vd Voltage Line of Data IC）





Check the resistance between (#1 pin or #2 pin) and GND with tester.

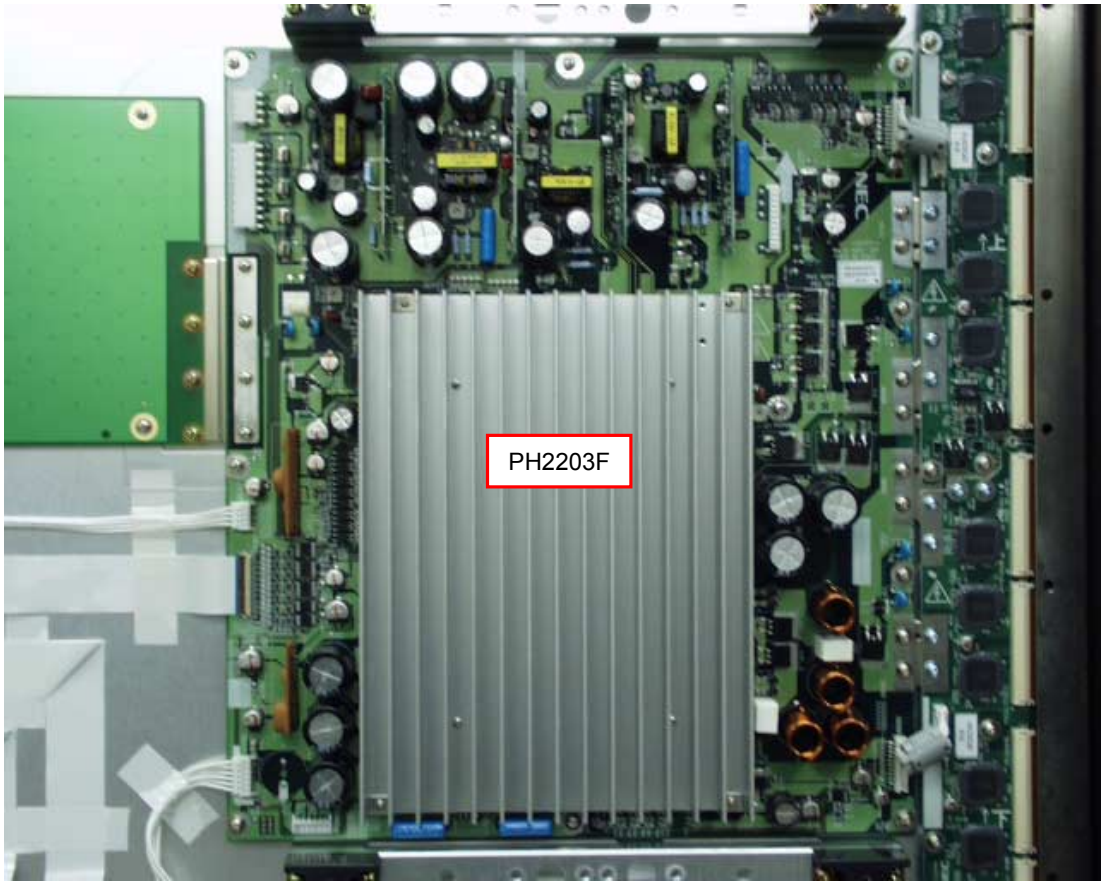
In case of shortage, it is caused by malfunction of data IC.

Check the surface of data IC after removing the heat sink and Take some pictures.

Tester Checking 5

Parts Location

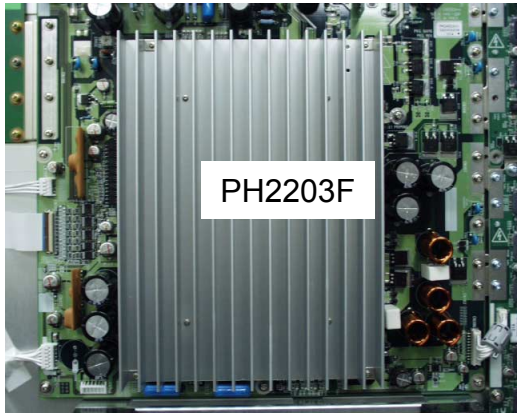
High Voltage Board

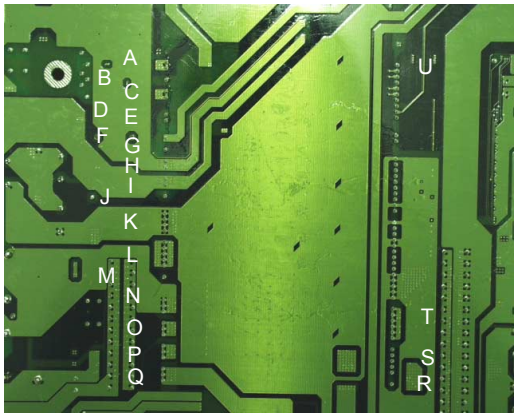


Tester Checking 6

Power HIC

PH2203F on High Voltage Board





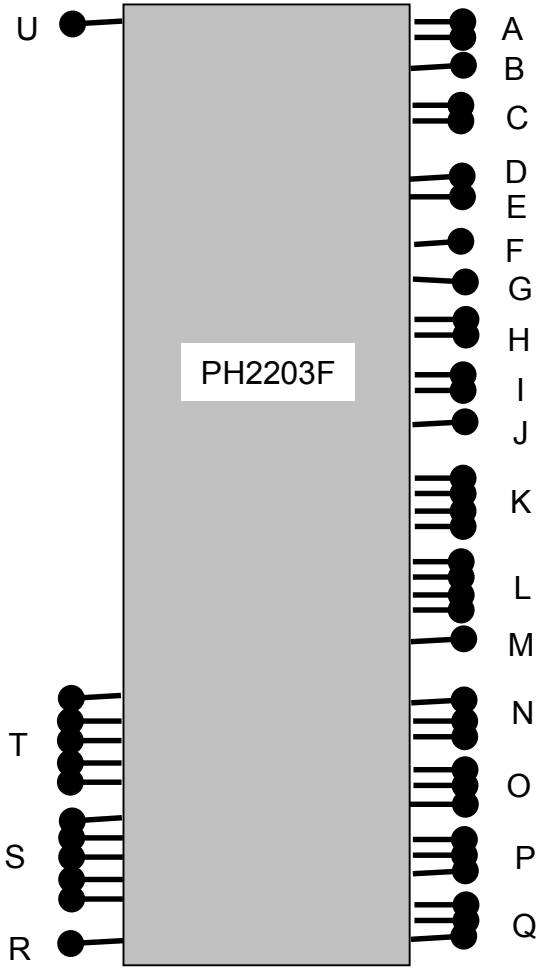
Turn this board over, and Check each points

Judgment

- OK: more than KΩ
- NG: Shortage

Checking point

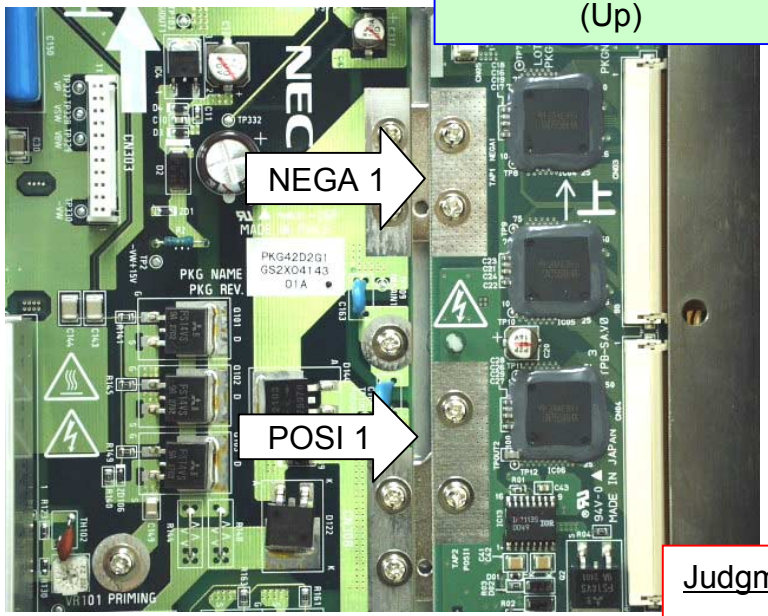
Between A and B	Between C and U	Between J and O
Between A and U	Between F and U	Between L and M
Between B and C	Between G and H	Between P and T
Between B and E	Between H and J	Between Q and T
Between B and M	Between I and J	
Between B and N	Between J and K	



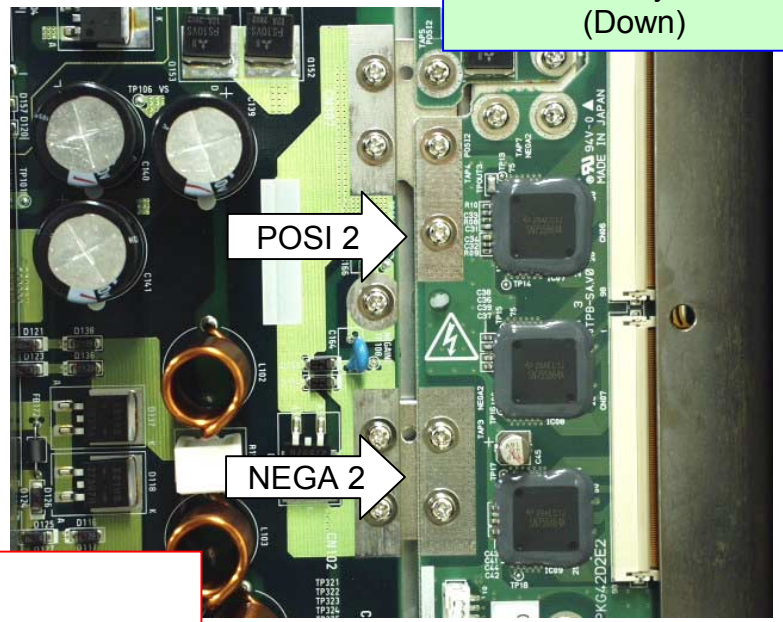
Tester Checking 7

Scan IC

Scan Relay Board
(Up)



Scan Relay Board
(Down)



Judgment

OK: More than KΩ

NG: Shortage

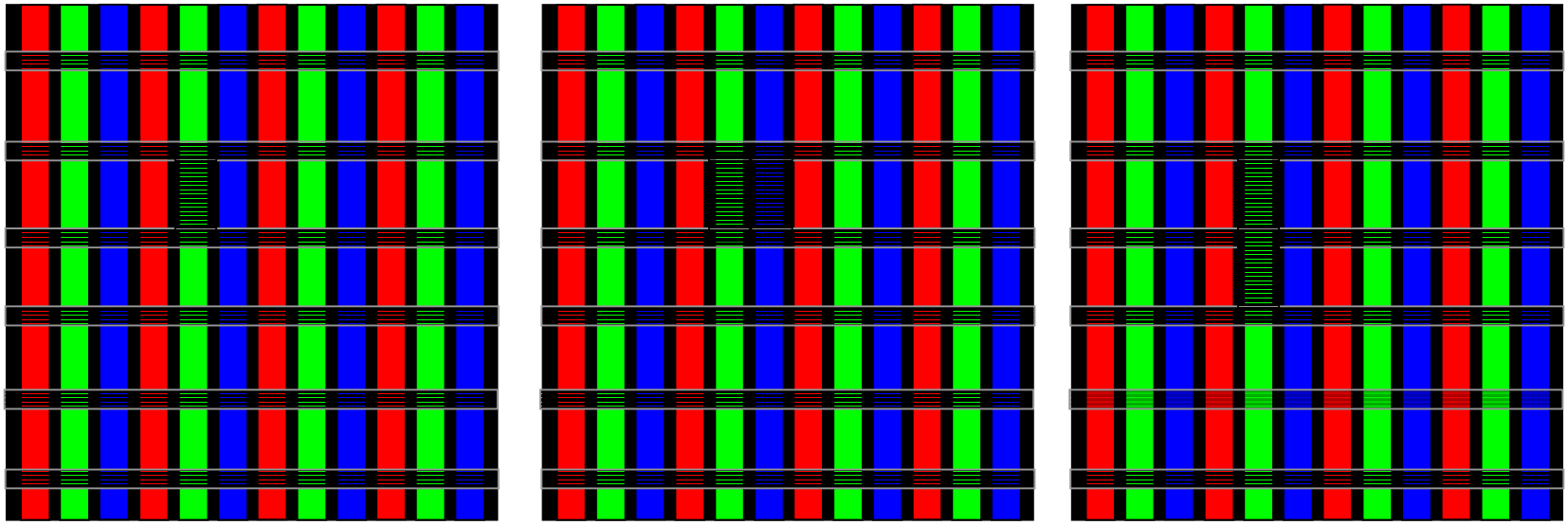
Checking Point

Between NEGA and POSI

Strip Defect 1

Strip Defect

Compare with specification



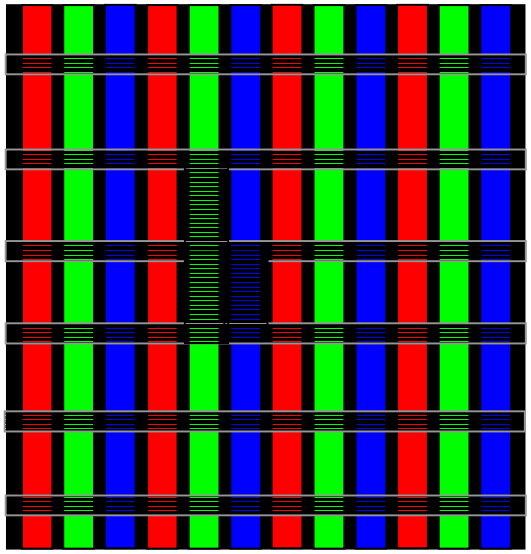
1 strip

2 strip

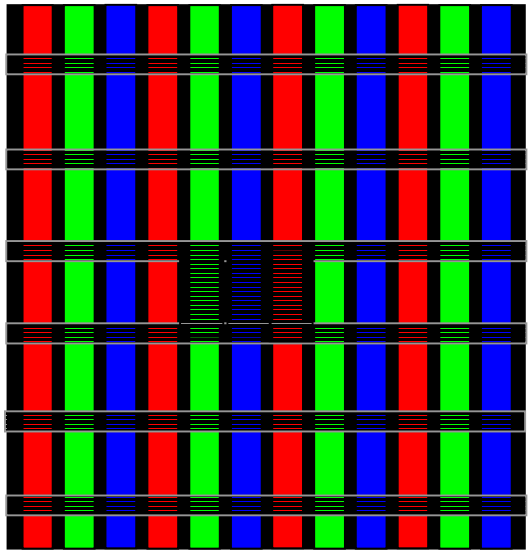
2 strip

Strip Defect 2

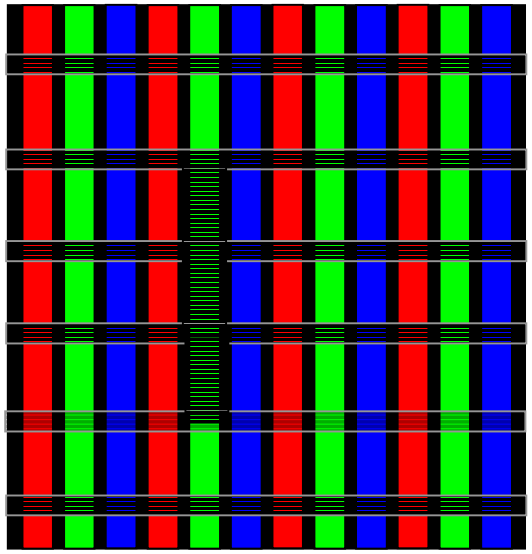
Strip Defect



3 strip



3 strip

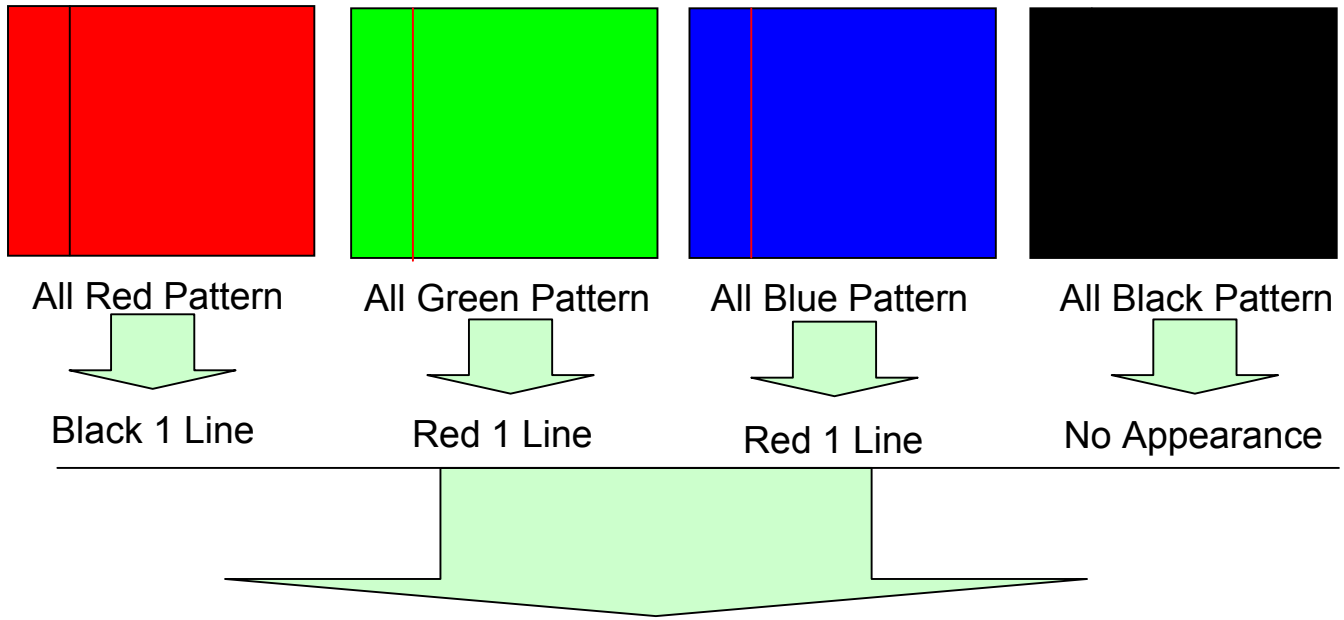


3 strip

Vertical Line 1

Vertical Line Single line

Open Mode



[Check Point]

a) The broken data flexible cable.

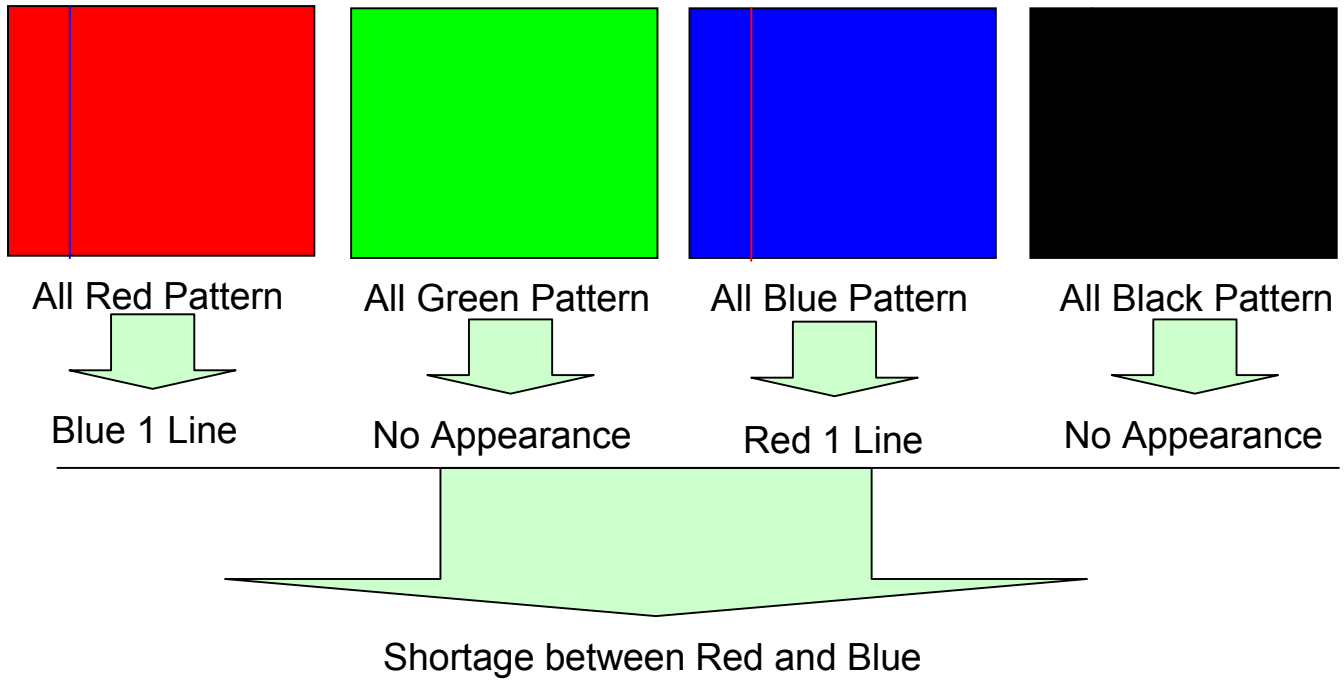
If OK,

Data IC Broken.

Vertical Line 2

Vertical Line Two lines

Shortage Mode



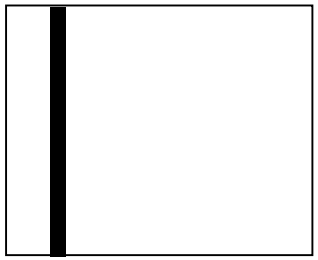
[Check Point]

a) This phenomenon is caused by panel issues.

Vertical Line 3

Vertical Line

block



1/2 data IC Block (Width 30mm)

[Check Point]

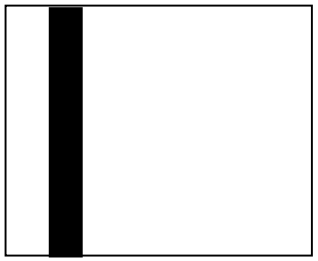
a) The broken surface IC on data IC.

b) The broken data flexible cable.

Vertical Line 4

Vertical Line

block



1 data IC Block

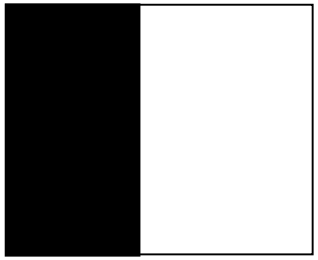
[Check Point]

a) Lacking connector between Data Relay board and Data IC.

b) The broken data flexible cable.

Vertical Line 5

Vertical Line block



Many data IC Block

[Check Point]

a) Lacking connector between Data Relay board and Scan or Common board.

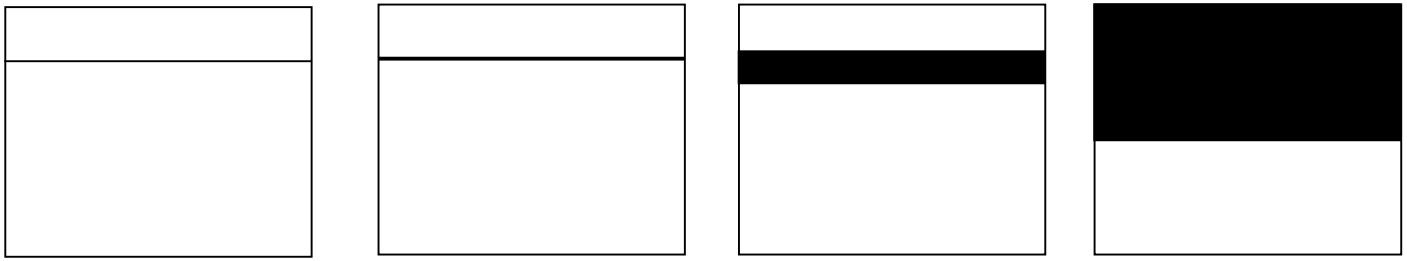
b) The broken data flexible cable.

C)Shortage between leads in connector.

Foreign Material etc.

Horizontal Line

Horizontal Line single line, two lines or block



Single Two lines Block Block

a) The broken surface IC on scan IC driver.

Check the resistance between NEGA and POSI on scan IC board. (Normal: KΩ Level)

b) The broken scan flexible cable.

c) Lacking connector between scan IC and scan board.

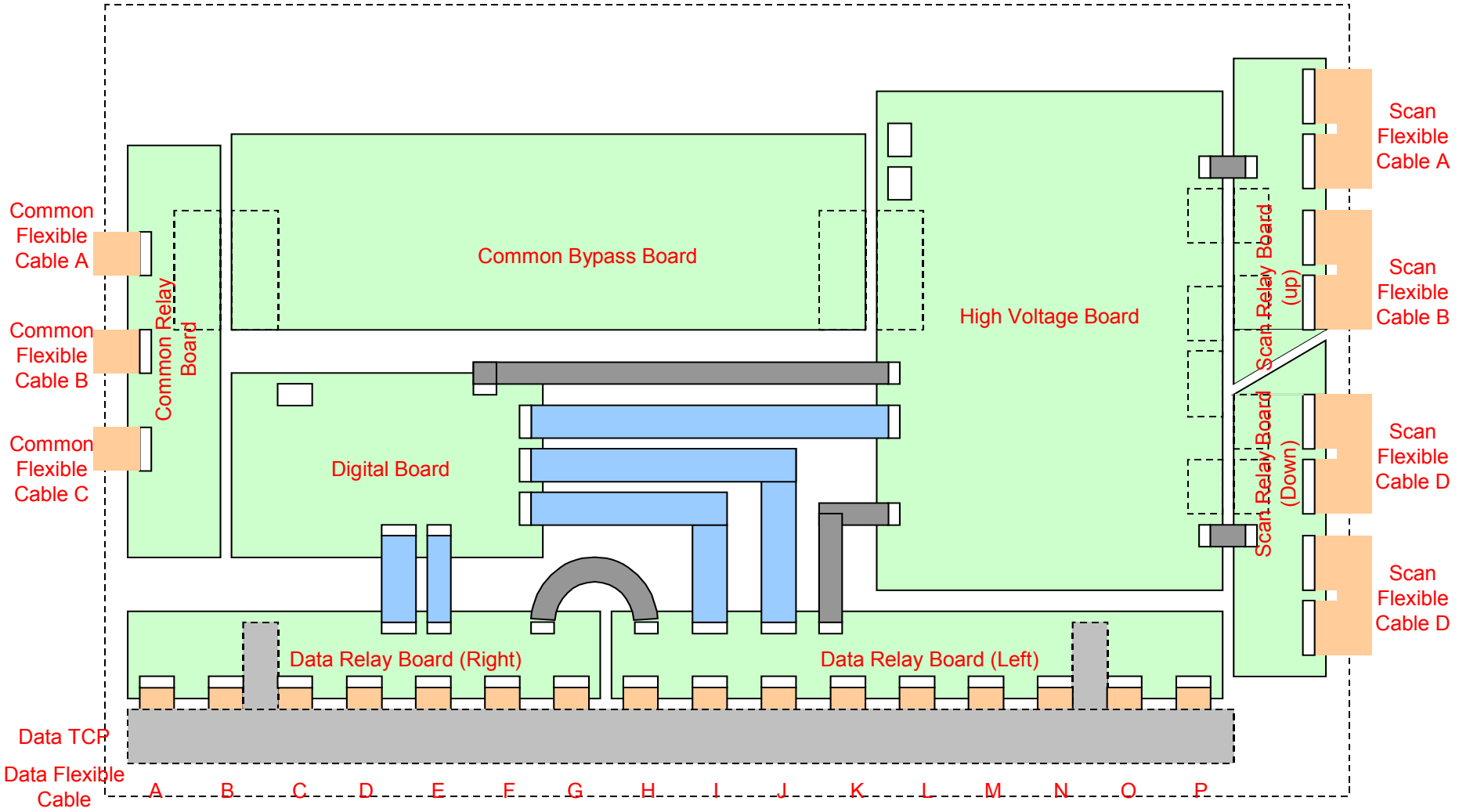
d) Shortage between each pins on scan IC by foreign metal material.

e) Contact malfunction between connector and flexible cable on scan relay board.

(CN01 – CN04, CN06 – CN09)

Check the contact by pushing.

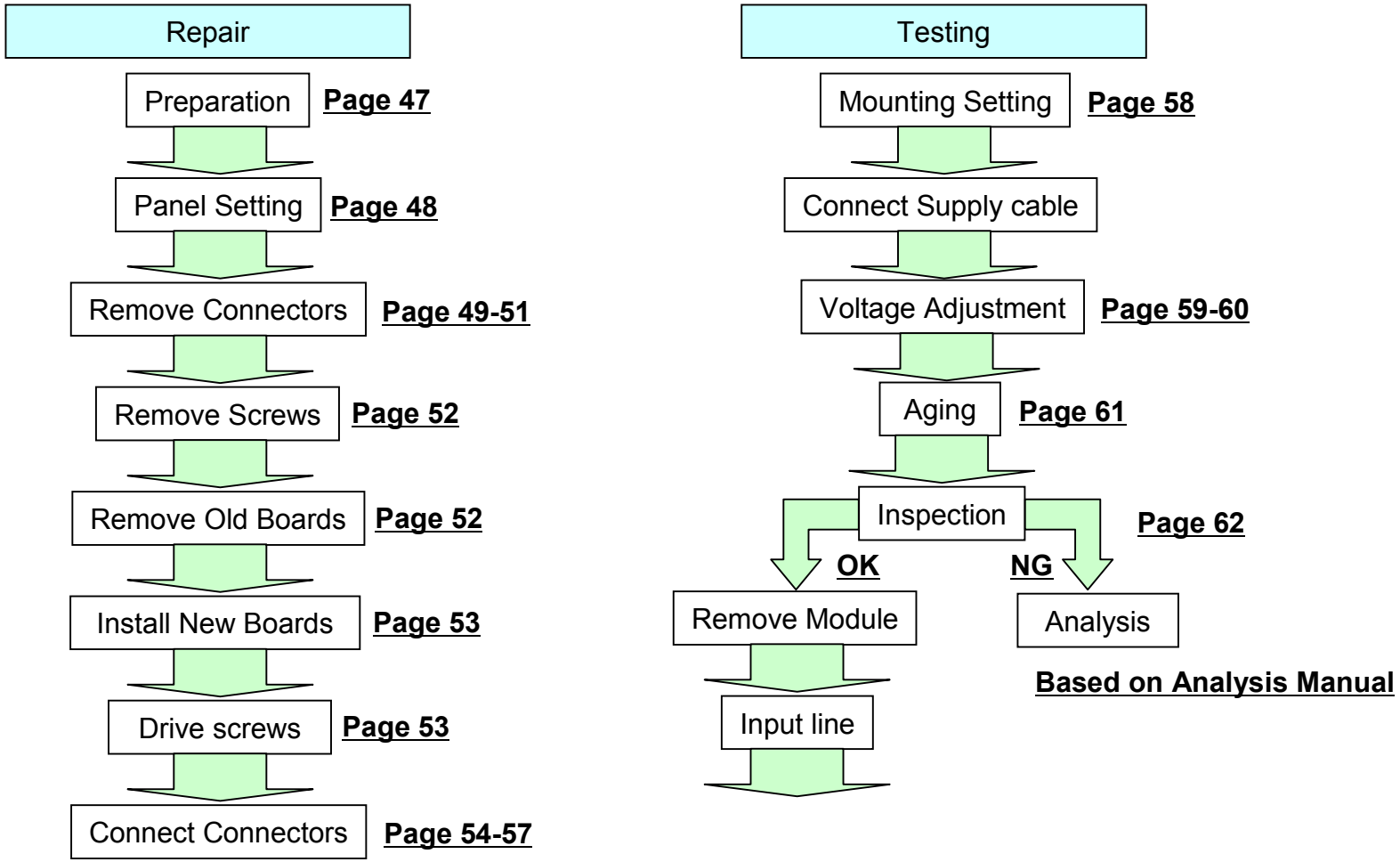
42HD2 Board Location


Common Flexible Cable A
Common Flexible Cable B
Common Flexible Cable C
Common Relay Board
Common Bypass Board
Digital Board
High Voltage Board
Scan Relay Board (up)
Scan Relay Board (Down)
Scan Flexible Cable A
Scan Flexible Cable B
Scan Flexible Cable D
Scan Flexible Cable D
Data Relay Board (Right)
Data Relay Board (Left)
Data TCP
Data Flexible Cable
A B C D E F G H I J K L M N O P

PDP (NP42D2MF01) Repair Manual

Ver.2

Repair Flow Chart



Preparation

Tools

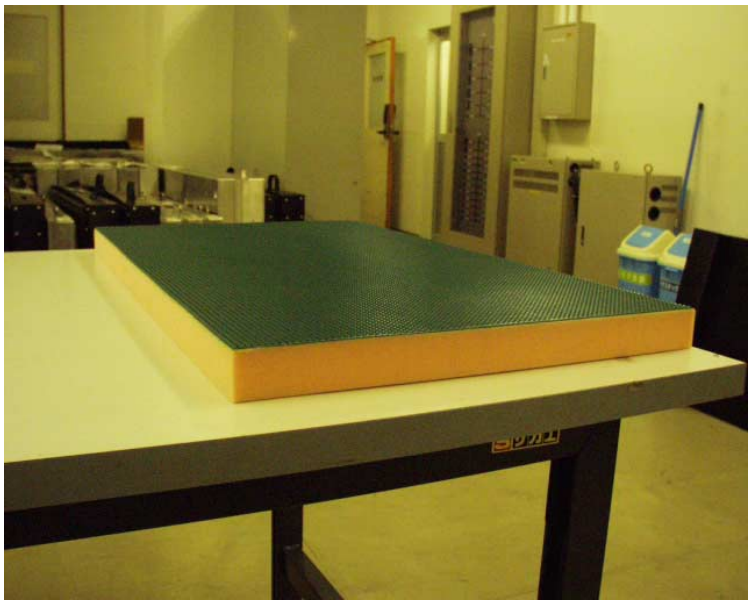
a) Driver ---------- Plus Type
b) Wrist Discharge ---------- Prevent Electrostatic
c) Signal Generator (PC)
d) Supply Package
e) Mounting ---------- To Stand Module
f) Tester
g) Cushion ---------- To put the Module on

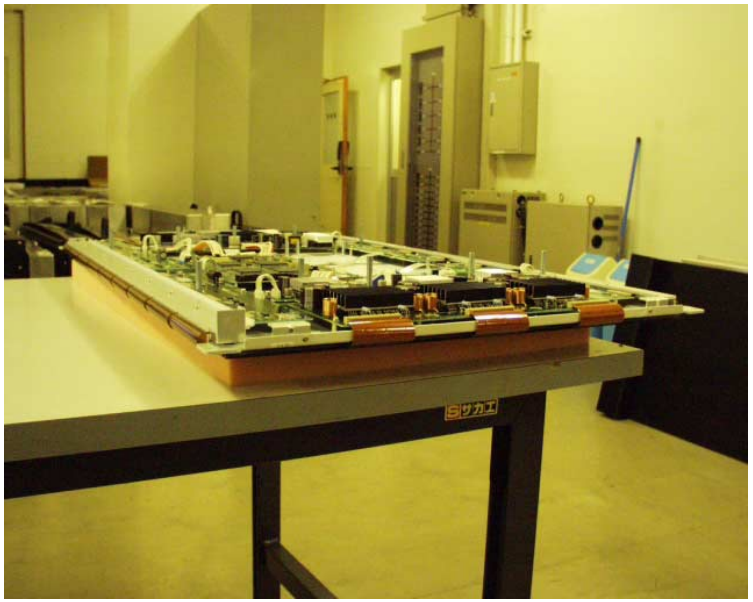
ATTENTION

Replacing the boards, always use the wrist band to prevent electrostatic.

Pre-setting

Put the cushion on a table and repaired module on cushion



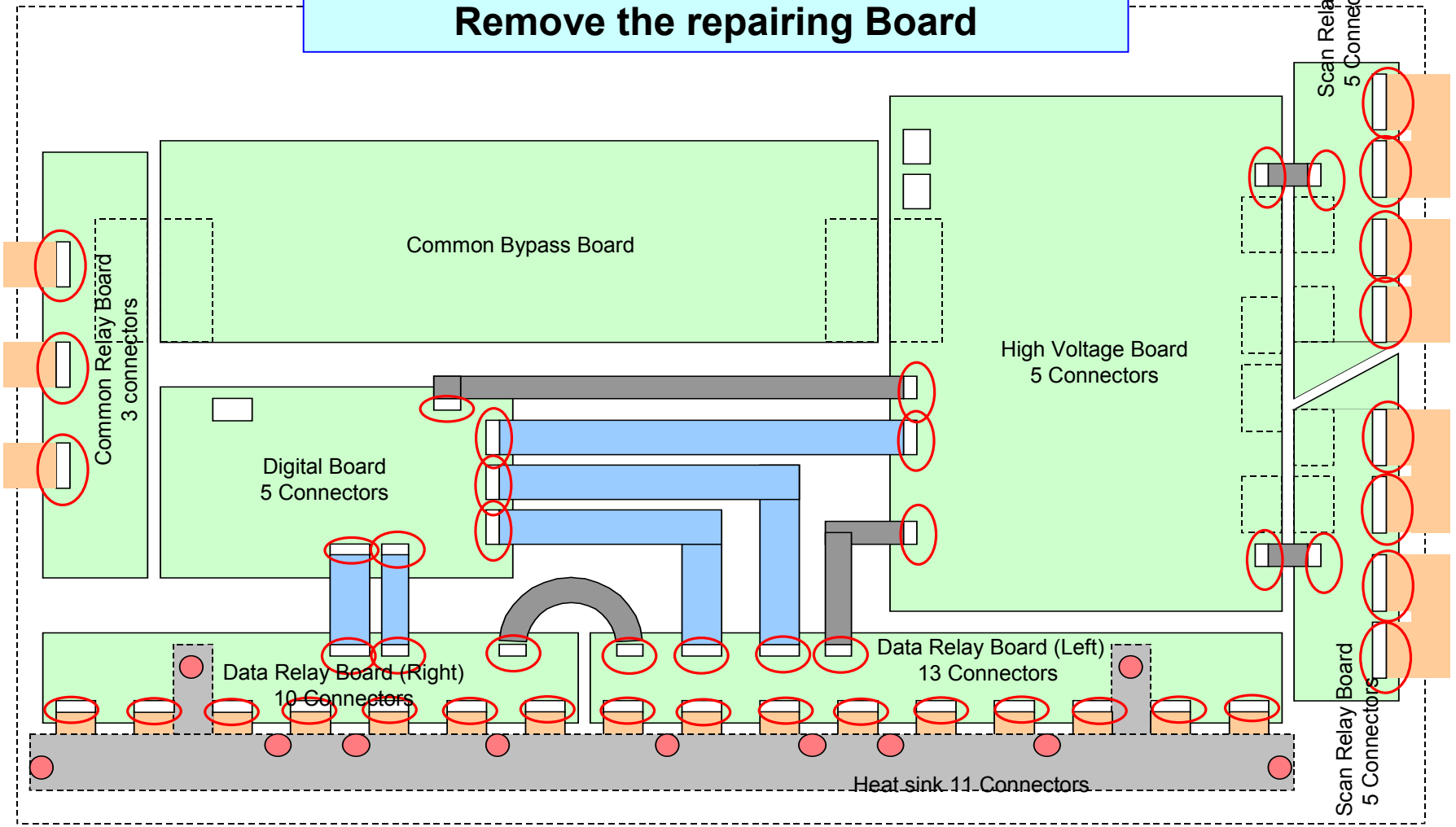


ATTENTION

Put panel like catching all surface on cushion.

Repair 1 Remove connectors and cables (1)

Remove the repairing Board



Attention **Be careful to deal with the connectors and cables.**

Remove the heat sink on the data relay board before removing the data relay board.

Repair 1 Remove connectors and cable (2)

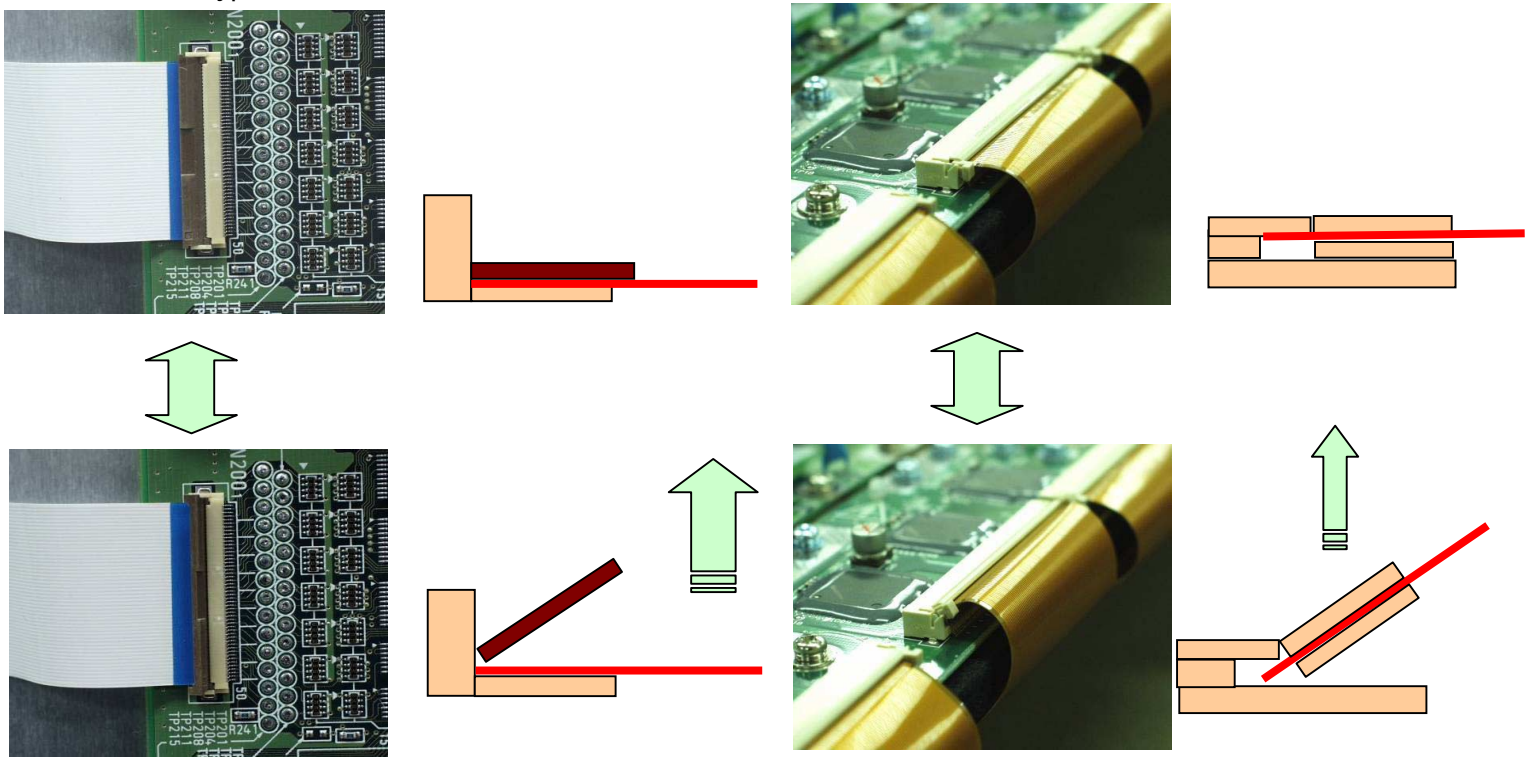
How to remove the connectors

Flat Cable (Type A)

Flat Cable (Type B)

Locked

Unlocked

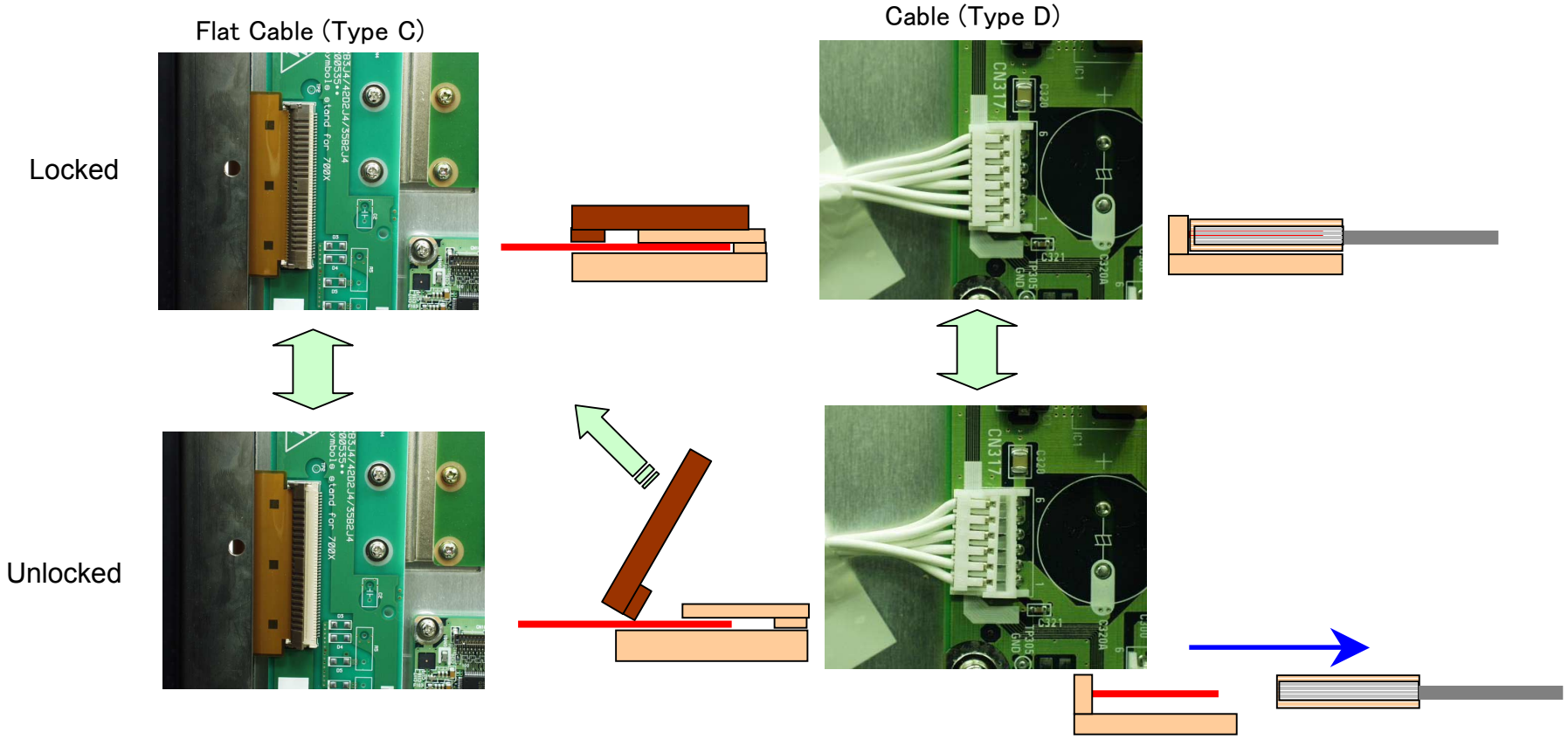


Be careful to remove the connectors because the structure of each connector is different.

Or, it is possible to broken the connectors.

Repair 1 Remove connectors and cable (3)

How to remove the connectors

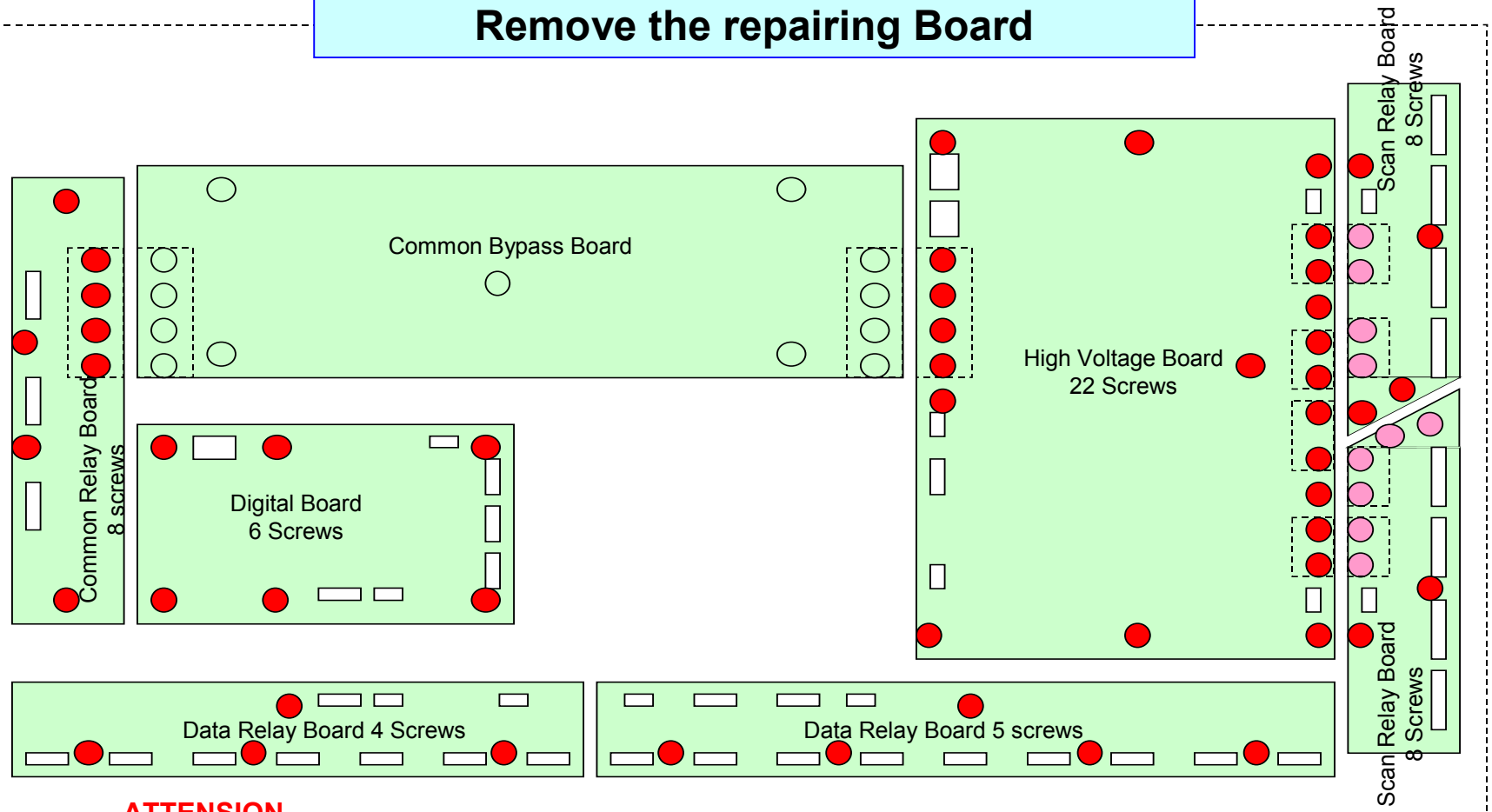


Be careful to remove the connectors because the structure of each connector is different.

Or, it is possible to broken the connectors.

Repair 2 Remove the Boards

Remove the repairing Board



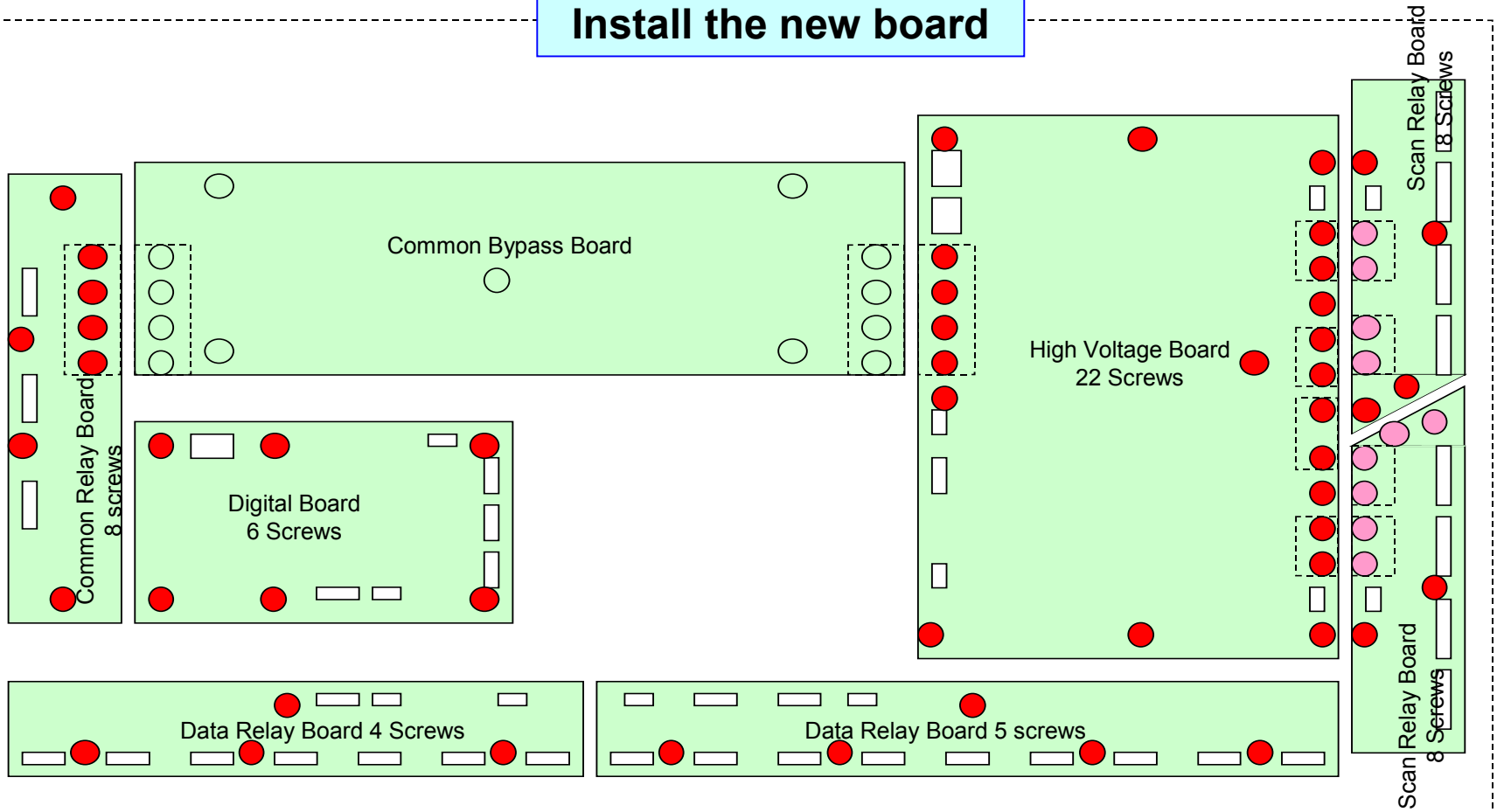
ATTENSION

Do not drop the screwdriver or screws on the board.

Be careful to not make the screw dust ------- Shortage factor

Repair 3 Install the new boards

Install the new board



ATTENSION

Install the same number board as module3

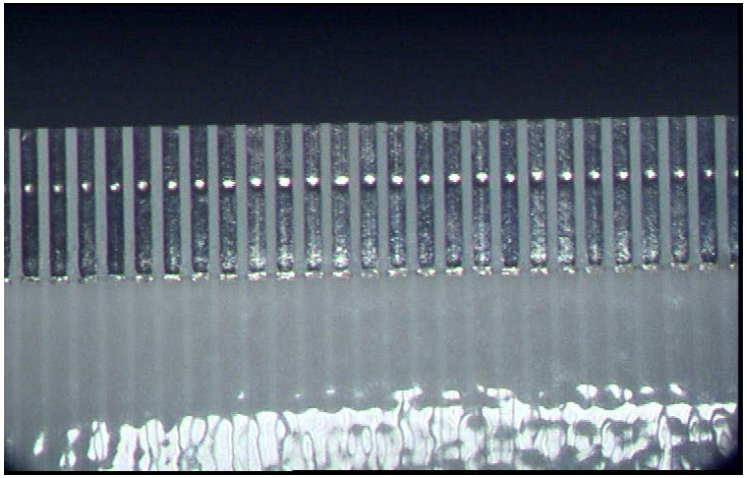
Do not add any stress board.

Be careful of the length of a screw. **Marking: length of 8mm** **making: length of 5mm**

Repair 4 Connecting (1)

Check the cables and in sockets

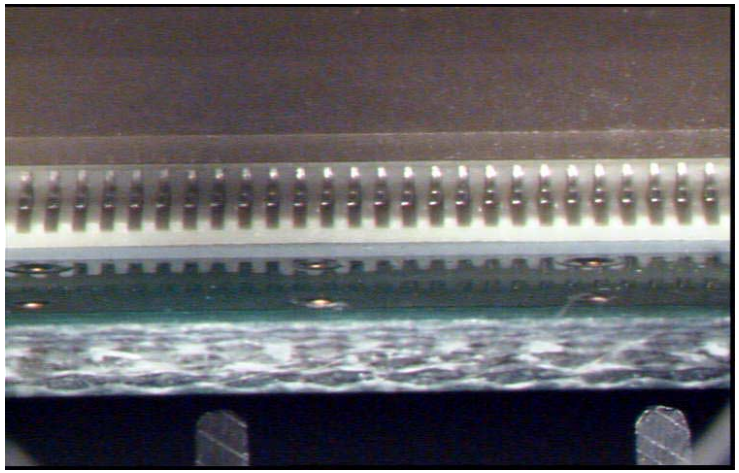
Flat Cable (Type A)



ATTENSION

Check the surface of grids whether it is tearing or not.

Socket (Type A)

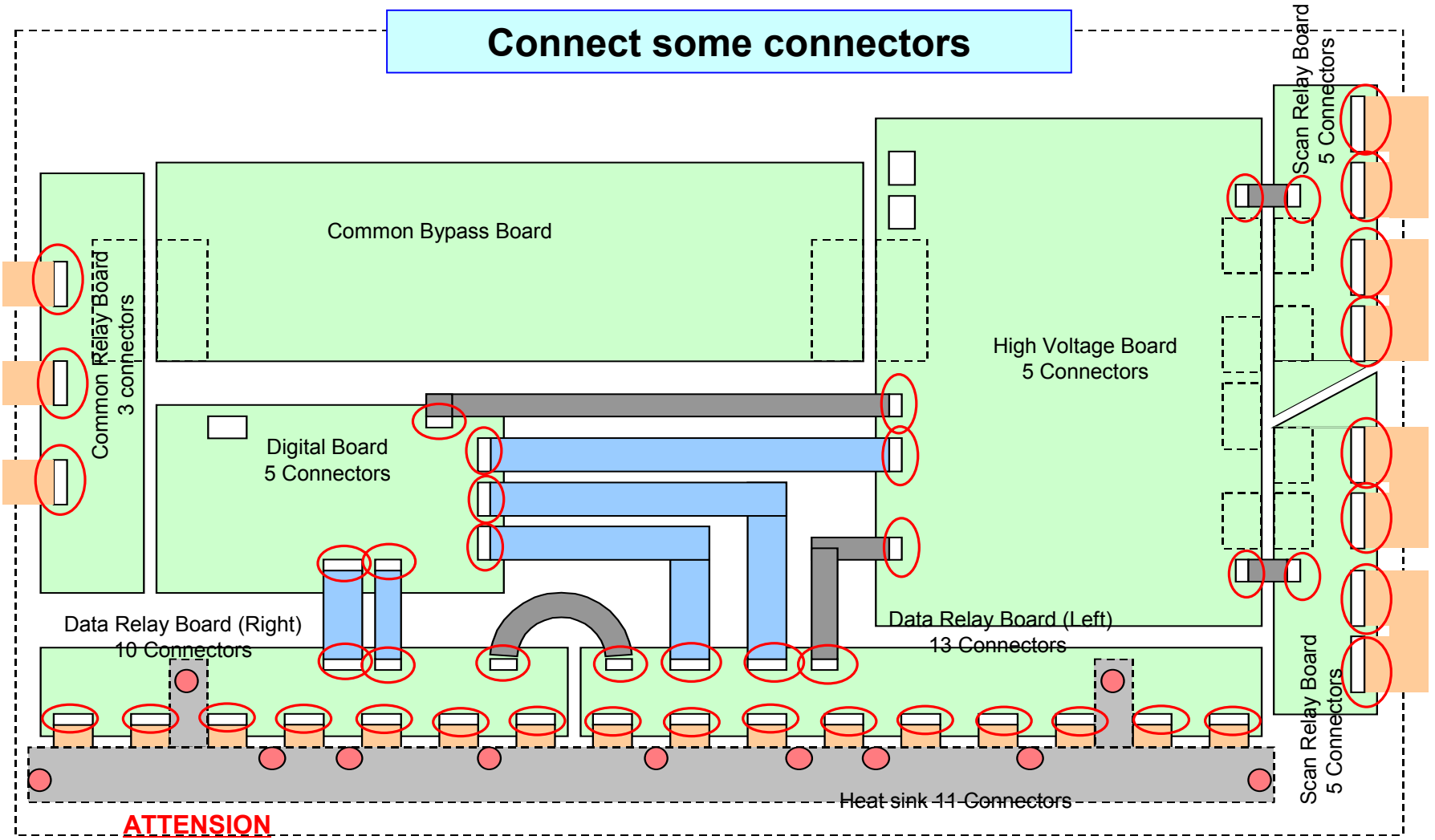


ATTENSION

Check whether there are some foreign materials or not in socket.

Repair 4 Connecting (2)

Connect some connectors

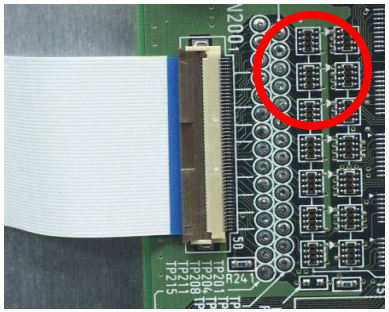
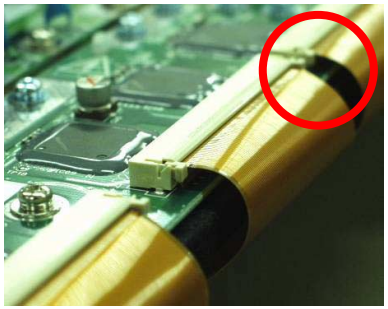
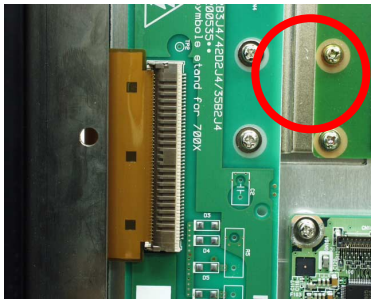
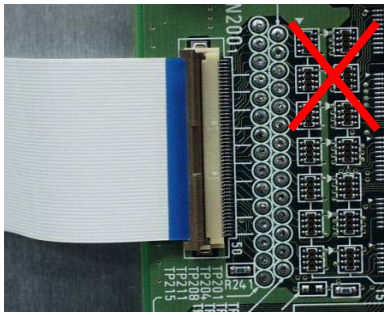
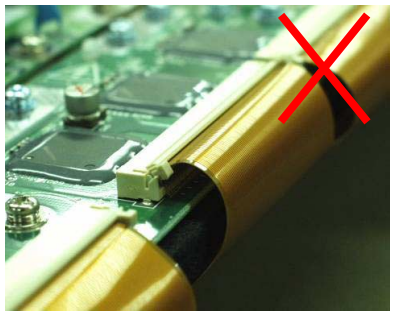
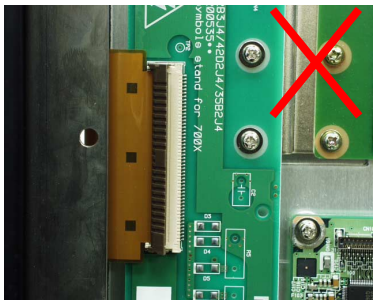


ATTENSION

Please check that connector connection of a red circled is made normally.
When you exchange the signal relay PKG, finally please attach a heat sink (9 screws)

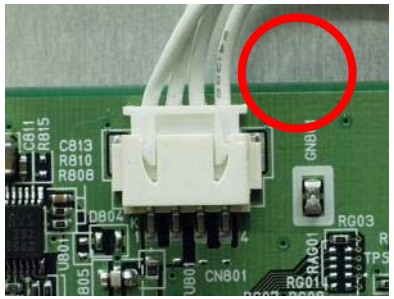
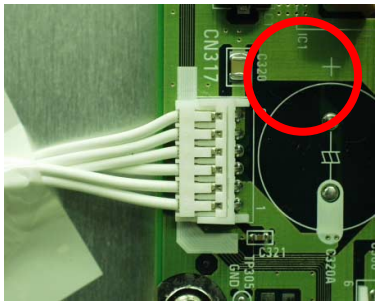
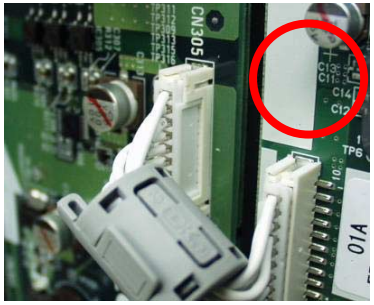
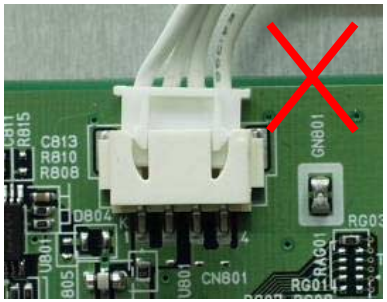
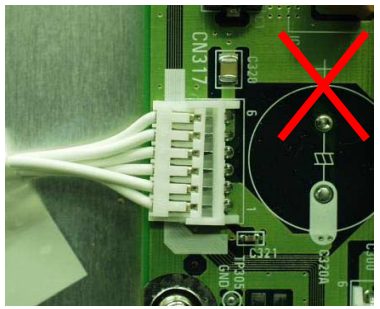
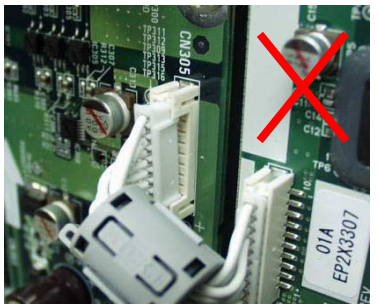
Repair 4 Connecting (3)

Connection Condition

	High Voltage Board (Photograph) — Digital Board	Scan Relay Board (Photograph) — FFC Cable	Common Relay Board (Photograph) — FFC Cable
Locked			
Unlocked			

Repair 4 Connecting (4)

Connection Condition

	Digital Board (Photograph) — High Voltage Board	High Voltage Board (Photograph) — Data Relay Board	High Voltage Board (Photograph) — Scan Relay Board
Locked			
Unlocked			

Check working

Mounting Setting

ATTENTION

Do not stand the module directly on table. ----- Broken the flexible cable

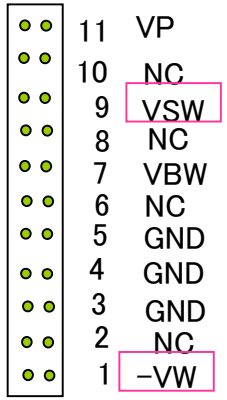
To fix the connectors from supply board. ----- Broken scan & common board

Adjust supply board to the suitable voltage (Vs) of panel. ----- Writing issue

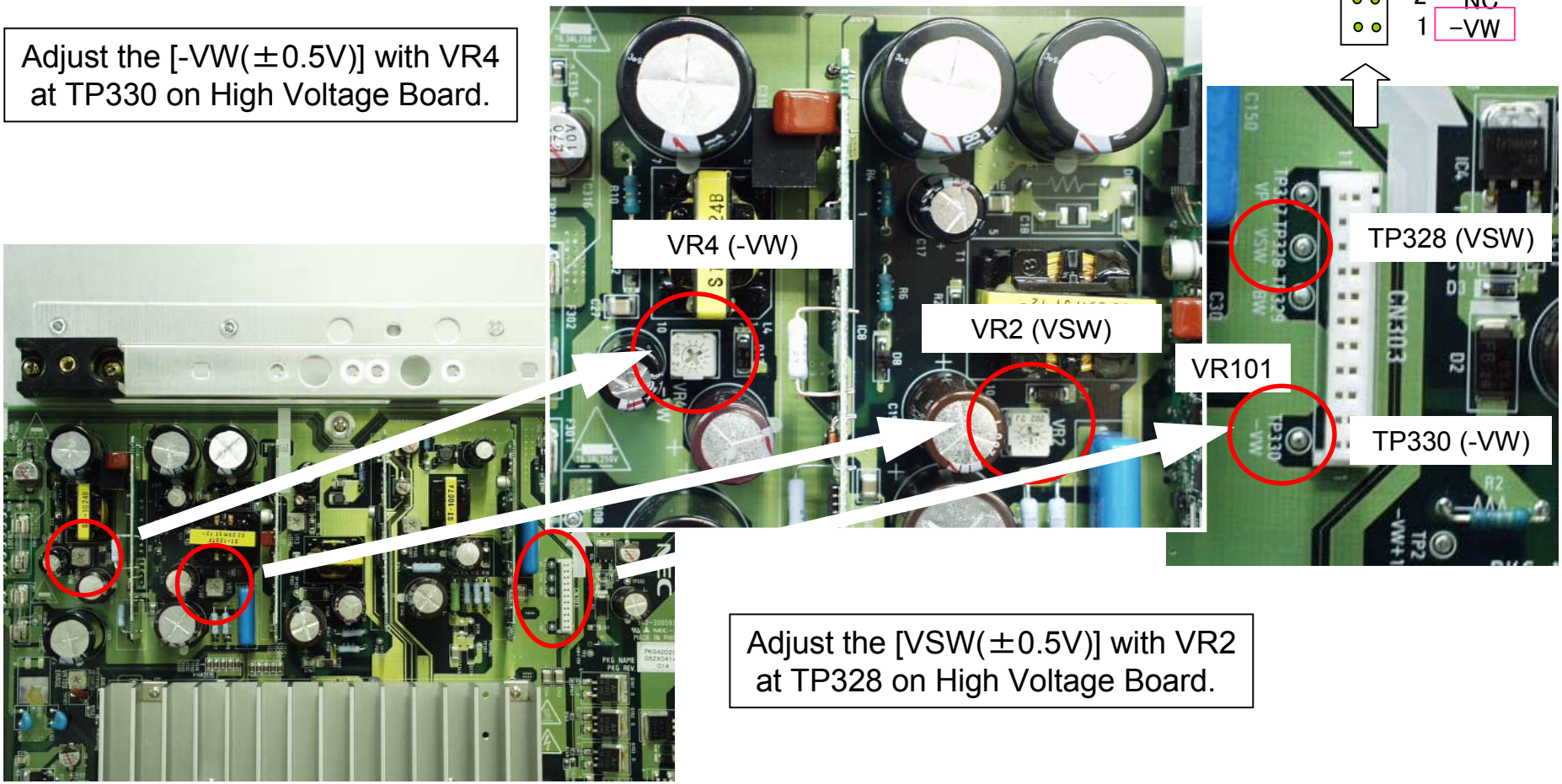
Voltage Adjustment (1)

VSW、-VW Adjustment

In case of no measuring land on the board, please refer pin assignments.



Adjust the [-VW(±0.5V)] with VR4 at TP330 on High Voltage Board.

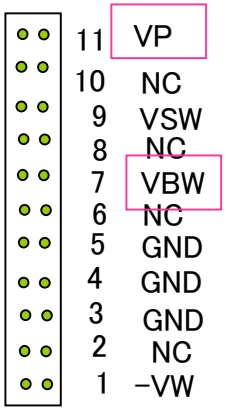


Adjust the [VSW(±0.5V)] with VR2 at TP328 on High Voltage Board.

Voltage Adjustment (2)

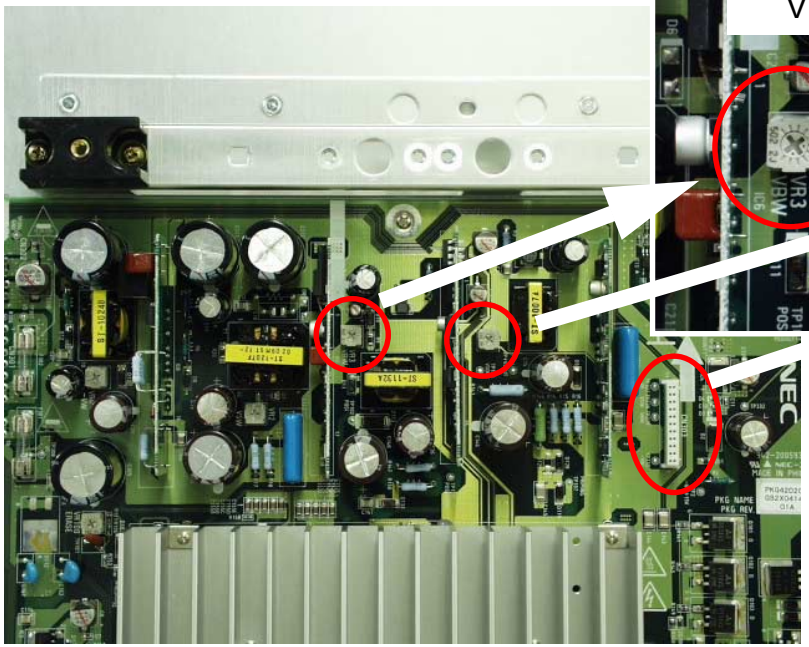
VBW 、VP Adjustment

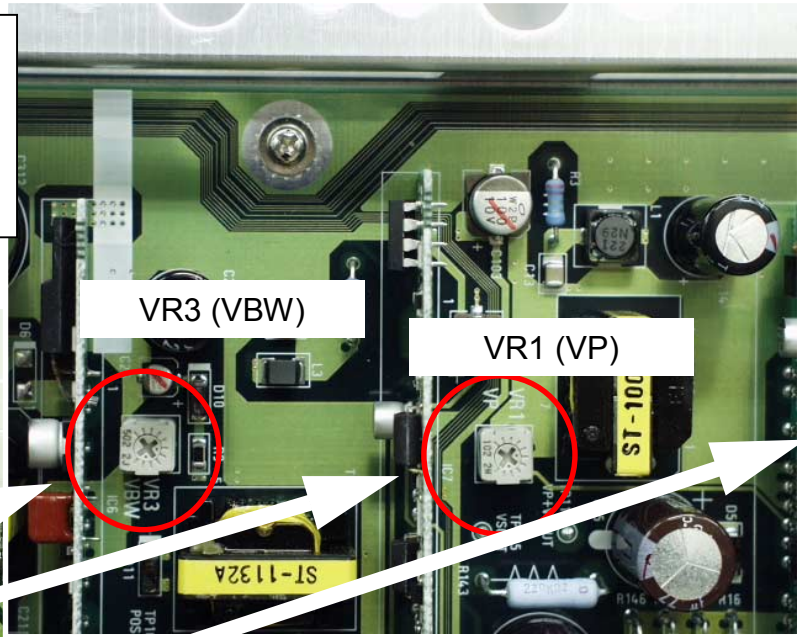
In case of no measuring land on the board, please refer pin assignments.

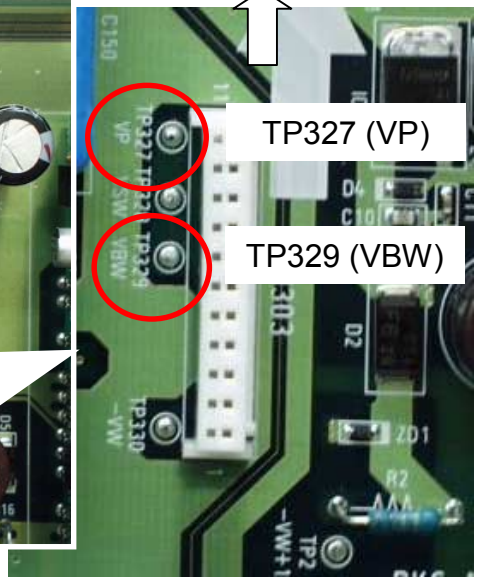


Measuring VBW which is between TP329 and TP330(–VW).

Adjust VBW by VR3.
(Tolerance:+/- 0.5 volt)







Measuring VP which is between TP327 and GND.

Adjust VP by VR1. (Tolerance:+/- 1.5 volt)

Check working

Aging

White Pattern

ACTION

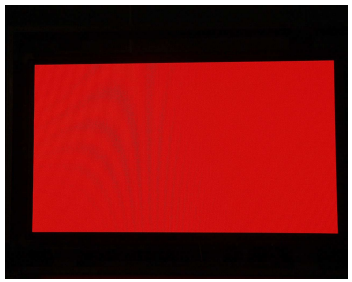
Aging on all white pattern for at least 30 min.

ATTENTION

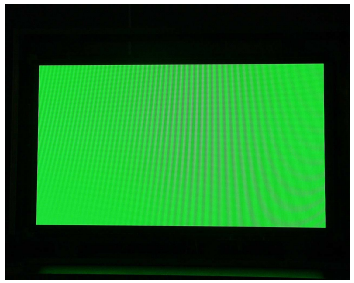
Do not use fixed signals to aging. For example windows pattern or window pattern.

Check working

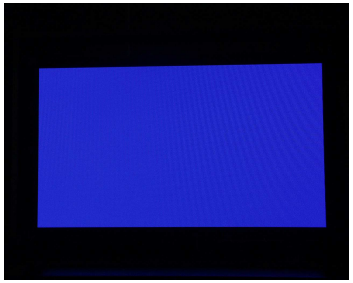
Inspection



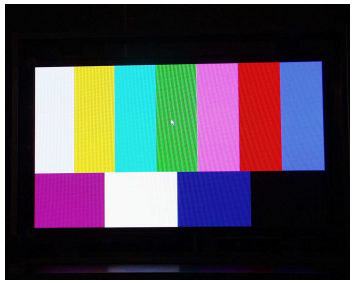
Red



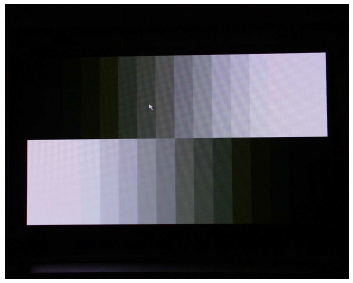
Green



Blue



Color Bar



Gray Scale

ACTION

Inspect the screen condition under all red, all green, all blue, color bar and gray scale.

List the replaced result as attached sheet.

ATTENTION

In case of some black strips or light strip, to aging more for one hours with all white pattern.

Stocking Condition

ATTENTION

To stock the modules in the room keeping on standard temperature and humidity.

To keep the modules sideways as following picture.

4. THE PARTS INFORMATION

PDP Module Repair Parts List

Sony Model name	NPD PDP Module	Part Number	Spare Parts Name	Supplier's Part Number	Version	Note
KE-42MR1 (AEP)	NP42D2MF01 AA	9-885-053-32	Panel Module NP42D2MF01AA	NP42D2MF01AA	-	Panel Module for service
S/N:2200001~		9-885-049-66	PKG42D2G1 BOARD HT4-9S899418	PKG42D2G1	03A	42D2 High Voltage PKG
KE-42MR1 (K)		9-885-049-68	PKG42D2C1 BOARD HT4-9S899419	PKG42D2C1	02A-05	42D2 Digital PKG
S/N:2000001~		9-885-053-70	PKG42D2C1 BOARD HT4-9S899493	PKG42D2C1	02A-06	42D2 Digital PKG
		9-885-049-69	PKG42D2J1 BOARD HT4-9S899269	PKG42D2J1	01B	42D2 Data Relay PKG(Left)
		9-885-049-70	PKG42D2J2 BOARD HT4-9S899271	PKG42D2J2	01B	42D2 Data Relay PKG(Right)
		9-885-053-71	PKG42D2E1 BOARD HT4-9S899275	PKG42D2E1	01D	42D2 Scan Relay PKG(Top)
		9-885-049-71	PKG42D2E1 BOARD HT4-9S899276	PKG42D2E1	01E	42D2 Scan Relay PKG(Top)
		9-885-062-42	PKG42D2E2 BOARD HT4-9S899280	PKG42D2E2	01D	42D2 Scan Relay PKG(BTM)
		9-885-049-72	PKG42D2E2 BOARD HT4-9S899281	PKG42D2E2	01E	42D2 Scan Relay PKG(BTM)
		9-885-049-73	PKG42B3J3 BOARD HT4-9S899282	PKG42B3J3	01A	42B3/D2 Common Relay PKG
		9-885-049-74	PKG42B3J4 BOARD HT4-9S899284	PKG42B3J4/42D2J2/35B2J4	01B	42B3/D2/35B2 Common Bypass PKG
KE-MR42M1 (CH)	NP42D2MF01 AB	9-885-060-53	Panel Module NP42D2MF01AB	NP42D2MF01AB	-	Panel Module for service (AB)
S/N:6000001~		9-885-049-66	PKG42D2G1 BOARD HT4-9S899418	PKG42D2G1	03A	42D2 High Voltage PKG
		9-885-049-68	PKG42D2C1 BOARD HT4-9S899419	PKG42D2C1	02A-05	42D2 Digital PKG
		9-885-053-70	PKG42D2C1 BOARD HT4-9S899493	PKG42D2C1	02A-06	42D2 Digital PKG
		9-885-049-69	PKG42D2J1 BOARD HT4-9S899269	PKG42D2J1	01B	42D2 Data Relay PKG(Left)
		9-885-049-70	PKG42D2J2 BOARD HT4-9S899271	PKG42D2J2	01B	42D2 Data Relay PKG(Right)
		9-885-053-71	PKG42D2E1 BOARD HT4-9S899275	PKG42D2E1	01D	42D2 Scan Relay PKG(Top)
		9-885-049-71	PKG42D2E1 BOARD HT4-9S899276	PKG42D2E1	01E	42D2 Scan Relay PKG(Top)
		9-885-062-42	PKG42D2E2 BOARD HT4-9S899280	PKG42D2E2	01D	42D2 Scan Relay PKG(BTM)
		9-885-049-72	PKG42D2E2 BOARD HT4-9S899281	PKG42D2E2	01E	42D2 Scan Relay PKG(BTM)
		9-885-049-73	PKG42B3J3 BOARD HT4-9S899282	PKG42B3J3	01A	42B3/D2 Common Relay PKG
		9-885-049-74	PKG42B3J4 BOARD HT4-9S899284	PKG42B3J4/42D2J2/35B2J4	01B	42B3/D2/35B2 Common Bypass PKG
KE-42MR1 (AEP)	NP42D3MF01AA, BA	9-885-063-26	Panel Module NP42D3MF01BA	NP42D2MF01BA	-	Panel Module for service (AA/BA)
S/N:2500001~		9-885-058-67	PKG42D3G1 BOARD HT4-9S899540	PKG42D3G1	01C	42D3 High Voltage PKG
KE-42MR1 (K)		9-885-058-68	PKG42D3C1 BOARD HT4-9S899542	PKG42D3C1	05B-09	42D3C Digital PKG
S/N:2500001~		9-885-058-69	PKG42D3J5 BOARD HT4-9S899543	PKG42D3J5	01A	42D3 Data Relay PKG(LB)
KE-42MR1E (HK)		9-885-058-70	PKG42D3J6 BOARD HT4-9S899544	PKG42D3J6	01A	42D3 Data Relay PKG(RB)
S/N:2000001~		9-885-058-71	PKG42D3J7 BOARD HT4-9S899545	PKG42D3J7	01A	42D3 Data Relay PKG(LT)
KE-42MR1E (ME)		9-885-058-72	PKG42D3J8 BOARD HT4-9S899546	PKG42D3J8	01A	42D3 Data Relay PKG(RT)
S/N:2000001~		9-885-058-73	PKG42D3E1 BOARD HT4-9S899547	PKG42D3E1	01A	42D3 Scan Relay PKG(Top)
		9-885-058-74	PKG42D3E2 BOARD HT4-9S899548	PKG42D3E2	01A	42D3 Scan Relay PKG(BTM)
		9-885-058-75	PKG42D3J3 BOARD HT4-9S899550	PKG42D3J3	01A	42D3 Common Relay PKG
		9-885-058-76	PKG42B3J4/D2J4/35B2J4 HT4-9S899284	PKG42B3J4/42D2J4/35B2J4	01A	42B3/D2/35B Common Bypass PKG
KE-MR42M1 (CH)	NP42D3MF01BB	9-885-060-54	Panel Module NP42D3MF01BB	NP42D2MF01BB	-	Panel Module for service (BB)
S/N:6500001~		9-885-058-67	PKG42D3G1 BOARD HT4-9S899540	PKG42D3G1	01C	42D3 High Voltage PKG
		9-885-058-68	PKG42D3C1 BOARD HT4-9S899542	PKG42D3C1	05B-09	42D3C Digital PKG
		9-885-058-69	PKG42D3J5 BOARD HT4-9S899543	PKG42D3J5	01A	42D3 Data Relay PKG(LB)
		9-885-058-70	PKG42D3J6 BOARD HT4-9S899544	PKG42D3J6	01A	42D3 Data Relay PKG(RB)
		9-885-058-71	PKG42D3J7 BOARD HT4-9S899545	PKG42D3J7	01A	42D3 Data Relay PKG(LT)
		9-885-058-72	PKG42D3J8 BOARD HT4-9S899546	PKG42D3J8	01A	42D3 Data Relay PKG(RT)
		9-885-058-73	PKG42D3E1 BOARD HT4-9S899547	PKG42D3E1	01A	42D3 Scan Relay PKG(Top)
		9-885-058-74	PKG42D3E2 BOARD HT4-9S899548	PKG42D3E2	01A	42D3 Scan Relay PKG(BTM)
		9-885-058-75	PKG42D3J3 BOARD HT4-9S899550	PKG42D3J3	01A	42D3 Common Relay PKG
		9-885-058-76	PKG42B3J4/D2J4/35B2J4 HT4-9S899284	PKG42B3J4/42D2J4/35B2J4	01A	42B3/D2/35B Common Bypass PKG

NP42D2MF01AA, AB

Upper compatible if no terms.

Name of Package(board)	Version	Replaceable Version	Conditions	Note
High Voltage Board PKG42D2G1	01A	**None**	This version of the board shall be used with Digital board 01A-01 to 02A-02.	"01A" and "01C" are not available so please use "03A". At that time, "02A-05" or "02A-06"of Digital board should be combined.
	01C			
	03A	**03A**	This version of the board shall be used with Digital board 02A-05 or 02A-06.	
Common Bypass Board PKG42B3J4/42D2J4/35B2J4	01A	**01B**		
	01B			
Data Relay Board (Left) PKG42D2J1	01A	**01B**		
	01B			
Data Relay Board (Right) PKG42D2J2	01A	**01B**		
	01B			
Common Relay Board PKG42B3J3	01A	**01A**		
Scan Relay Board (Top) PKG42D2E1	01A, 01C	**01D 01E**		
	01B			
	01D			
	01E			
Scan Relay Board (Bottom) PKG42D2E2	01A, 01B, 01C	**01D 01E**		
	01D			
	01E			
Digital Board PKG42D2C1	01A-01, 01A-02	**None**	This version of the board shall be used with High Voltage board 01A or 01C.	01A-01 to 02A-02 are no longer available. Please use "02A-05" or "02A-06" of Digital board. At that time, "03A"of High Voltage board should be combined.
	02A-01, 02A-02			
	02A-04	**02A-05**	This version of the board shall be used with High Voltage board 03A.	
	02A-05			
	02A-06	**02A-06**		

Note: Do not combine the boards in green and yellow cells

9-878-233-01

Sony EMCS Corporation
Ichinomiya TEC

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2004DL08-Data
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